

<400> 22215

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gcattgcgct tcggaggcta tttcggcgct ggtaaacgat tctaagaaag cgctgtctcc 180

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ttagtgctca cattcgggtg actgtgatac tggtgaggcg cccgcgttta ctgatgattc 420

ttcggttggg gttgataagg gcggtgactt gaggtttgcg agtcat 466

<210> 22216

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-D7

<400> 22216

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ggcgatttgg acgtctggta atgggtggcg tgaggttatt cgtgcggatg gtatgtgttg 180

ttctcgttac acttggggta agacgtataa gaaggcgcgg actgtgggtt gggatactgc 240

ttctgctggt tcttgtgac attaggatga taaggttgat gctacttcta agcatacgaa 300

tgatgaggtg tgttcgtcta aggttcatgg ggagtccttt gagatgtcta ggtctaatga 360

gggtgctgat gctgacgggt ttgaggaggg tgaggagaat ggtgatcata atcataccta 420

gcctgaggat gaggatactg ataagactca agaacctcgc tctcttccct c 471

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<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-D8

<400> 22217

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 ttcttctctt ccccttctta tccaatcttc cccccccctc atttcaaaat aaactaacca 180
 tttttttccc actaacccaa cctttctgaa aactaaaaat tcactcttct caaaaattcc 240
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<210> 22218
 <211> 465
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-D9

<400> 22218

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 ctgcancega gtagtagtaa ttatcgtata ggacgctgcg gtagatgcat gctgacgagt 180
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 gtgttgcccc gggttagagt attgtacctt tatagcctaa gtttagaggag acgattaata 300
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 ttaagcatac ggctacttaa ggtgagtttg gtgtcgctac ctgtgggaag aagggactcg 420
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<210> 22219
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-E10

<400> 22219

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 taataatcta cgtgttgcta ctaccatcaa tattattaca cgtgctggcc atgatcgaac 180
 tcttactcgg ttccggattc ttaaatacaa tacaatttgt tcgattcgac gttatggtta 240

tgggtacgagt accatcagtt caaggtggct taaggatgag aacgatccac tcgacacgaa 300
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 tataatctcct tactctatta gtcgtaagac ttatcacgag aacactaaga cggacgatct 420
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 c 481

<210> 22220
 <211> 450
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-C6

<400> 22220

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 acggtactac tggttgtgtc tccggcgctca gtttctgtgt cagcgggtggg tattgtttta 180
 taggcagtgg aggtaaagaa gaagagagtg gtggagagtg gtgaggtggg ggaggtgaag 240
 aagacttagg atgatcctcg tctgatgtcg cgtgagggtg agaaggggat ggattcggct 300
 gcgcgtaagg agcttcgtgt ctctcttttag tagcttaatt cggcgctcgca tggtaggact 360
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 taggaggagc gtgataaggt gcatgcggcg 450

<210> 22221
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B11

<400> 22221

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 cagttgttgt ctttggtgcc gggcccgtg ctattggttg tactcatcgt gataatcgtt 180
 gtgttgggcc tgagataaat gcgctttatg ttacttaagg tgtgatggcg gagacggagc 240

gttgttatcc tgagctgtag taggcttatg ataaggtgga cgtgatgatg ggttttggtg 300
 gtcggcatag gacggagact agtgggtgatt attaggatga gactcgtgat gcgtgttcgt 360
 ctaagagttt tgaggtggat cgtgttgaga ctgattatct ttgtgatt 408

<210> 22222
 <211> 244
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B12

<400> 22222

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 cgctagaatt tggctctctc gatctctcta cacgtacgaa tggaattacg gcgctacgac 180
 tctgctgcta tttgggtagt ggtgctggaa tgagtcggtg taatttaggt gtggctctgg 240
 tcac 244

<210> 22223
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B2

<400> 22223

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 cggtggtggt gctcgggtgt ggtggtgcgg atgatgatgg tgctggcggc gataggtcga 180
 cgacggattg gccttctagt cggtaggtga tgcataattg gctgcatttg atgggtggaag 240
 agaggtagtg gtggccttag gcgcattgtt gtaataccga gtatactgag gttattaatt 300
 gggtaggtaa ttcgatgcat atgtctggtg ag 332

<210> 22224
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B3

<400> 22224

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atattaaggt tttgtctaag cttttttccg gtagttgtcc cgtcgctaag cttggcggtc 120
attgtactgt cgatgatgct acttttgtcg accctaaggt tggattatt cacaagatta 180
tatctagtag tcaactagtt ctgcacgacg aaccacaccc taaaagagtc tattcggcgt 240
ctacgccagt aagataaacac cccctcacg gtcacccgc ggtattaaat tatttaagaa 300
acacgcgacg tcatacgctt tcctcgacgt tccgcgcgc cgggccgaca ccaccataca 360
aatcaaaaca accacccacc caagaccca aaaaaaaaaa aaaaagggtg gttgtctcag 420
aggacttaag tccatgcatg tgcgtacgtg atgct 455

<210> 22225

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B5

<400> 22225

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accttttgcg gtcgtaccag ggtacgtttt tgctacgcag tagcaccga ctgcctctcg 180
tcctacgggc ttatacttcg gcactccac cttacaacga cacacacacc aaccaataaa 240
tcaaaatacg caccacccc aggggccgc tgattggacg agtccgtctc ggtcggcgta 300
cggacggaag aagtgggact agtcgatgtt gctgaatccg tcgtctacta gagataaggc 360
tgtgtctggt agtatatt 377

<210> 22226

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B7

<400> 22226

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 gataagacgg tacgtataaa taacgtgagg agagttccgc cttcttcggc ttctcctcgt 120
 actgcgtacg gcgagaagga agagctaaag ggtactgacg tgaaagtgc tgggttcggc 180
 gggcttcctg atactattaa gccgggtggt cttggtaacg gtaagataga tagtatgaag 240
 gtcgcgtagg aagtacgggt actggtgcgt ggtggatcgc ggaagtagat aacttctaca 300
 ttttaagggtg atccttccgc tggataatct aatcctatag gtttccgtaa gggatgatgcg 360
 attacctagg cggacggtaa ctcgtc 386

<210> 22227
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B8

<400> 22227
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 ttccgttctt ttgagcgtct ctggcgagtc atccgcacct gaccactag gaaacttgcc 180
 cgtcctacgc cgcgtaggtc tacactcgac cgtcggacct ggtaaatttg tgccggactt 240
 cgcactggcc agcttccgtt cgtaaggcct ccgcgcgcc gcccgcggc ctgagtactg 300
 tacgcctcgt cctcggactt agactcggag aaactgtgaa gctgctgctg cctggcctgg 360
 agtggactcg aggtgatgac aga 383

<210> 22228
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B9

<400> 22228
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 ttaaggaagg cgggtggtggg gtgagggggg ctggtcccggt ctgtgctcgt ttggactcag 120
 ctgggcctta ggaggcgggg gtgatgcgcg cggggtggtg atttcctggt ggtgtggtct 180

ggttctgggtg gtacttcggt ggtagcgagt gtggcgctg cacgctatcc ttgggtgccg 240
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 gtgaagaagg cgctcgctcgg tgttttaggg tagggagtgg tgttgtgtgc ggaggctcgg 360
 aactcggcgt gtgcggggc 379

<210> 22229
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-C1
 <400> 22229

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 aagagagacg gaccttctta ttctgggtgt ggtggtaggg gaggtggttg cgttgttgga 180
 ggatgatgct cgtcttgctc gttatgattg tccttggaact ttgcgttagg tgaatcgtct 240
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 ccgtaagcgc tttaccgct gttgttcac aaactcatcg gcgttcgctg taccactagg 360
 gtaggaggac ggcttataag tctaatacac ctcaggagag acctagtatc acaatc 416

<210> 22230
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-033-Q1-E1-C10
 <400> 22230

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 ataatcaaac cgaataatag ttttaagttgc aaagtgcctc tagcctagga caagtctcgg 180
 ctaaccacg tcgttggtta tatcgatta acattaccct ccaaggtaac cgatacccta 240
 ttatcagtct cagcactaga aaacgaacta ggaaacggtt cggtcgggct aagcataaac 300
 gacgtcccg aggtagccag ggagtcgct agcggcgacg ggtaggtaaa gaaaggatgg 360

aaagggtaaa atgaagcttt ctccctcttg ggcgcgtact ataggtcgac gataagtttt 420
 ataccgacga attcgggttta agtctcagtc cactataaaa tgcgtca 467

<210> 22231
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-C12

<400> 22231

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<210> 22232
 <211> 391
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-C2

<400> 22232

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 tgcgcactaa cggctaagaa ggccttaccg gaataaccac caccaccctt aagtcaccct 120
 ggtctccctc caactcctaa aaagaaacga accttgcaac ggcaatatga aaaaagaaaa 180
 aaaaaggaag cgcggaaaaa acgataagaa gacaccggaa tactaaccgg aaagagacga 240
 cagaagtggg agcctacccc ggctacggca ccaagaaacg gaacttttaa acggttttcc 300
 atactctggt aaagtgcaaa ggcactctaca ccacaaactc cgtcagaata gtctgcccc 360

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391

<210> 22233

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-E1-C3

<400> 22233

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cacgtaaaca tcgcccttac acgtcatcgt atccaagaag ccagattcct agcccatacc 120

ttcccttata gaggactacc gctagacagc ctaatgtcgt cttaactcgg aaattccaga 180

ggcgaggggac gctacagggg actgcggatc ataagccgcc gtatagattc gtaagaaacc 240

gtacaggtct agagcagaga gaggagacga cgactaagga ggctccgagg acgaataagg 300

caggacccta taggcggggc cgacggtcac agtttaaggt cgtttcgagc cgatacatcg 360

ggtgacatac gcactagata ccataaacgt agtcccagag gtagnccgca tacgtagtaa 420

<210> 22234

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-C4

<400> 22234

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ctagaactaa atgagtcccc atttccccgc cttatatgag accctcgctt ctgccgagtc 180

tactccaaga tattcgtgcc actcccgaat agacgcgttg ttttagtta atcttttatt 240

cgataacgct ccttgtttgg actggtttgg tgaggttggg ttccggagtt aaaaggaggg 300

gtggcgtttt gtccttgatt tatggaacaa gcaaaacaat gccaaaagca gcggcaccct 360

atccgtgttt ggaggtcttt atccacttca tattctctaa gctaccctat aaagctggat 420

cagagctaag tctaataagg ctctctcctt ttgt 454

<210> 22235
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-033-Q1-E1-C5

<400> 22235

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aaccactcc ccg 434

<210> 22236
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-B10

<400> 22236

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gagcgttgct atgttgctcc tgatcctgat cctattattg atgagaatcg ttagaagagt 360
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<210> 22237
<211> 427
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-032-Q1-K1-H3

<400> 22237

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attaaattgg gatgaaagtc gaaatgcaaa acttttagat ggaatgcaga tcttctgata  180
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aaacttaact tgtagctct cctgtgagca gcatgaagcc ggttctcctt tgattatcaa  300
ctggcttctg ttcgtaacag atttggcatg cagtggcaac ttggtcaagc atagattctc  360
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acacaag                                           427

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<210> 22238

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H4

<400> 22238

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cggctccggc aaaccacatc aagtcgcgat ggagatgaag aaggtcgcct gcgcgcctc  180
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<210> 22239

<211> 112

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H5

<400> 22239

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tcattcttcac tgaatgtcgg aaattctaga accgtaccca cactacataa tc 112

<210> 22240

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H6

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tttcttatta ttgcatgcac gtttatataa gtgctcattg tcttgctgtt gtaagtgcga 180

gcacaagcat atatacggcg tttatatata ctacatactc cgatcgttca aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaaaaag 300

aagagaccct tgacaaaaag aaaaaaagaa aa 332

<210> 22241

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-032-Q1-K1-H7

<400> 22241

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ccgatgttga ccagtgcgtg tgctcatccg tgcacgccgg caatgggtgtc ctccgcccggt 180

gcgctcatcg gcttcctcgt cgcgcggggc tccctcgccg tcgcgctctc ggatggcggc 240

gggatggcgg cgcctgtgta cgggtacgcg gcggggagcc ccaacggggc ggagaactgg 300

gggaagctga gcccgcgta caagctgtgc gngagggga agcagcagtc cccgatcgac 360

atcgtc

366

<210> 22242
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H8

<400> 22242

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caagacggat agcacgaagg ctgtgcagga ggcggtggca tcagcgtgcg ggggcaccgg 240
gaagcagacg atcctcatcc ccaagggcga ctctctctgc ggaccactca acttcacagg 300
cccatgcaag ggcgacgtga ccatccaggt gaatggcaat ctgctggcga ccacggacct 360
aagccagtac aaggatcatg gtaattggat cgagattcta cgcgtggaca accttgatcat 420
caccgggcag gggaaagctc ga 442

<210> 22243
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H9

<400> 22243

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gggagatcga taccgacgag cagatcggac accgcgcact atttctgcag gaccgcacgc 120
atatgatcat gtaccagatc cttgtgtgga cgctcatacg gctggagcta ggcataaact 180
ggactggcta catgtaggat caatacgcca tgggcatcga gctgatagag tacgtgcacc 240
gtgccgagct tacgatagct ggtgggcccc ttgagtggct ggaccacatc gagatctacc 300
cgggtggccta gcagtaggca gggatgtgcg tcacggcaac cgaatacatg tacttca 357

<210> 22244
<211> 230
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-E1-A1

<400> 22244

gatctgtatg gtgattgtaa gatcgataat taggttcagt gagcgcgatn gactcgattg 60

tttgactggc tcgaatttcg ataatttgca taagcctgac gtaatacccg cctaccttcc 120

gcgctgaata cgcggcgaaa aaaagggaac cacacacgag tccccccgcg accccccggt 180

tagccgcagt cgccatcatt atgcaaatac catgtaaagc tgccctgtacc 230

<210> 22245

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-A10

<400> 22245

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gacttaaagt ctctctcgcg gtacgctgta gttacggtga agaatacatt gattgacgag 120

gttgagcata gtgaggtcgc ggataagggt aggtgtaagt cttgagtttc tactgttgag 180

aagagtcgtg ttttgtctac gtcttgttct gtgcggtatc ttgtggggat gcctgatgag 240

ctgctgagga ttggtggctt acctggtatg acgaagtact agctggaacc ggtctatggt 300

gtcaatgtgg ggtcggatac tgtggcgtgg tcgtctgagt ttactaagga ggagccttta 360

acttccctcc atgttgacct tcattagtct gtgggagccg cggttgcgga ggctattggc 420

gggttcgag 429

<210> 22246

<211> 474

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-A11

<400> 22246

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ctccttcttg ttattacgct tactgttggg gaggatcatt tctccttctc ttctcttttc 120

tctttctctt tctcttttcgc ggccgatcat tgggctgctg gtgaaggggtg aatgatgtta 180
 cgttgggtgga cttacgtagg gtcggactta taaaagtcgg acttgccggag ggccggacct 240
 ctccccgagg gtcggactta cggaggggagc gtatgggtgtc tgctgttttag tctgaggcgt 300
 gagggtagcg tcattcattt gaggattcat gactctactt acgtggatct ggcacctatt 360
 tcgcatagga atagggagaa gacttcttcg gccgctaaga tgcaccggat catttacgaa 420
 gttacgatta aaactagcag taggatcgct aaactcacca acgacacgaa agaa 474

<210> 22247
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-A12

<400> 22247

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 ctttcccccc cccccccccc cccccccctg gtaggtaagt caacgcagtt acaaacgggt 120
 aaagacaaca tagtaccctc ccggcacata agcccacttc cttgcacgat agaaccttag 180
 tccacgccgg aatatcctca agcccgcggt gtaactaata tcgtatactc tacccaaaaa 240
 atgaaggttc aacagacgca gaaaccaaata caaaactcga aagtcctata aaacgccccgc 300
 acttgtcttc tcagtacccc cggcgccgca aattatattc tcggccattc caatcagaaa 360
 taagtaatca attcgcacac caactcg 387

<210> 22248
 <211> 330
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-033-Q1-E1-A2

<400> 22248

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 atagtgaatg ggttctgtag gttctgcgtc cctagtctac gcaccatagc acctttcacg 120
 gtttgcgcta agtatgtatg tatcacacaa aacatatcca cacatacata cgatgcgcgt 180

catgataatg atgaagaaga acgaatagtc agtagatgca ttggtggttg acctataagc 240
gcatagaaaa tgactgatct tatcttaatc acatacactt catcacggtc nccgtcataa 300
tttgacggac taaaaagtac gtacgtacgc 330

<210> 22249
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-A3

<400> 22249

tggacctttg ggctgattta tgtgcttggt tatgtgcttg ggcgaaatggc aagtcaagtg 60
aggagttcgg gccggcgaat gtaagtttgc atgagaaggg gccgaccact aaggctaagt 120
ctactgacct atgtgagtct agcctgtcta cggacggcga taagcatctg aaacctcgtg 180
aggaagaaga ttgctaccga agaaactaga gggctcctcg aatattaaag attcgcgctc 240
taagtctcac tagcgccctt cggctcggag attcgtcgcg ataaacccaa accggttagg 300
cctaccgtac ggaacaa 317

<210> 22250
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-A5

<400> 22250

tgggctgatt tatgtgcttg tttatgtgct tggtagtgga ggtggttggt aagttcgagc 60
ggggttatgg cgggttgatt gatgtcgggtg gtcataataa tcggttgag gatattgctc 120
ctccttgtagg tgataatggc gggcggagta ttgagcatgg tgatcctcct tcgctgcggc 180
atctgtagac gtcgtcggag tatggtgatt gtacttcgct ggggtgttatg cttgcgcctg 240
gtgtggtggt tgcggaggct cttgcgaagg cggttggtac ttatcggat catggtagtt 300
ggctttatgt ttttgagtct attgtgggtc atcataatat gtggtgttat gatgggcatt 360

<210> 22251
<211> 128
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-033-Q1-E1-A6

<400> 22251

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gagcatagtg atcctccttc gctgcggcat ctgtagacgt cgtcggagta tggtgattgt 120

acttcgct 128

<210> 22252

<211> 175

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-A7

<400> 22252

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atagattcgc atttgctgc ttattcttcc tttgatggga tctcgctac tctgttaat 120

gattgtctta cttcgctga ttttaagaat ggtaggctg cttgtgagcc ttttg 175

<210> 22253

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-033-Q1-E1-A8

<400> 22253

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cttttcttcg tatgtaattc tactcggtcg cgtagactta ggacggttgc ttcttcogag 120

attcgttct tttgagcgtc tctggcgagt catcccgccc tgaccacta agaaacttgc 180

ccgtcctacg ccgcgtaggt ctacactcga ccgtcggacc tggtaaattt gtgccggact 240

tgcactggc cagcttcgt tcgtaaggac tccgccgcc cgcgccggcg gctgagtact 300

gtacgcc 307

<210> 22254

<211> 414

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-H2

 <400> 22254

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 ggtgggacta ttttttctgg agcttgtgaa caagtttggg gttggagcag tctatgcagg 120
 ttttggtggg gtctccctgc tgacagcact ctttgccctac aatttcatag ttgaaacaaa 180
 aggacgttcg cttgaggaaa ttgagatgtc cttgagcagt gctacccttg gcaagcaaga 240
 gtagaacatc tcaattgtat ggacaaactg aacaactgac gggaggaatt taataagagc 300
 agagggggcc taatcccatg aatcttcagc agcagcagtt tgttgcaaac aacatcaact 360
 cctatagata atgagcacia tcaaattcag cttttctttg gtagcatgag aatc 414

<210> 22255
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-033-Q1-E1-B1

 <400> 22255

 gggaaaatgt aagatttcag tatttttgtt ttgctgttga tggttgttgg agcagagaga 60
 cggtggcgga tgaagcgaat ctggctcatg ctgggtggtc ctttcatgag gttaatgagg 120
 agacgtcctg tgatgttcct gggcatcatg gtattactgc tcttgctaag gcgaccaacg 180
 actacgtcgc taaaggtaag cgccacggcc ccgccatccc tatctatttt agagtcgctc 240
 agtaagtaac cgtgggtacg gatggtaaga aaccacgtaa ttgcaccgcc tgagcaaacg 300
 aagcgtgcat aagagttttt gtga 324

<210> 22256
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-K1-F9

 <400> 22256

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 gaacatgtac cagtgaaga acatgctgat caaggacgtg accgtgacgg cgcccgggga 120
 cagccccaac acggatggca tccacatggg cgactcatcc gggatcacca tcaccaacac 180
 cgtcattggc gtctgcgacg actgcatctc catcgccctt gggacctgca aggtgaacat 240
 cactggcggtg acctgcggcc ccggccacgg catcagcatc ggcagcctag ggcggtacaa 300
 ggacgagaag gacgtcacgg acatcaacgt caaggattgc actcttaaga agacaatgtt 360
 cggcgctcgc atcaaggcgt acgaggacgc cgncttcgtg ctcacgtctt tcaagatcca 420
 ctacgagaat atcaagat 438

<210> 22257
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-G1
 <400> 22257

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 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 120
 tttttttttt tttttttttt ttttttttat tttattaatt tatttttata atgggttaa 180
 gatatttgaa attgagaaag aatgggtgtt gctgctgaat aaatgtacat tgagattgag 240
 attttgttta aaaatgttta aagttcaaaa taaccgggta ctgatgggag gacaatattg 300
 gagattttta aaaatgctgt aaaa 324

<210> 22258
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-G10
 <400> 22258

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 gtgcggggaa ttgtcggcgg gaccaggacc atgccatgac ggaggctgta gaccactagc 120
 gctgctatac ggacagtggc acatagcaaa ttgcatcggg acgtgaacca atctgtagtc 180

gcatggcgac tgcaccttga atacatgggtg ccacattatg acatacaacc taggtacgag 240
 cactaacctg gtcttgacgc agaatttgtg g 271

<210> 22259
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G11

<400> 22259

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 agaggtgggtt cacggattgc ctttggaagt gagatgtcag gtggcatatc ggaagtacgg 120
 getgagggcc tccgcattgt caactccctt cacgggatca gaatcaagac ggccccggag 180
 cgcgaggagggt acgtggagaa tgtgtacata gcagatgtga gcatggacaa tgtttcgatg 240
 gccatcacga tcaactggaaa ctacggtgaa catcctgatg acaaatatga cagcactgct 300
 ctccctgtga taagcaatat tacaatcaag gatgttgttg gcgttaacat tggggttgct 360
 ggtatattgg aaggcattca gggggacaat ttcagcaaca tttgtctgtc caatgtttcc 420
 ctcaagtgtgc aatctgcac 439

<210> 22260
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G2

<400> 22260

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 cctcgttgcc ggtgggagga acaagaagac caagcgcaca gcgccgaagt ccgacgatgt 120
 ttatctcaag ctccctgtca agctctaccg tttcttggtc aggaggacca agagcaactt 180
 caatgctgtc attctcaaga ggctcttcat gagcaaaacc aatcgccac caatctccat 240
 gcgccgcctt gtcaagttca tggaaggaaa ggagaagaac attgctgtga ttgttggcac 300
 agtcacagat gacaagagga tccaagaggt tccagcaatg aaggttactg ccctgaggtt 360
 caccgagacg gcaagggcca ggattgtcaa tgctggtggg ga 402

<210> 22261
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G3

<400> 22261

gcggtggcgg agatgtacct gctgggcatg accgacaaga tcgtcaccag cggctggctg 60
acgttcggct acgtcgggca cggcctcggc gggctcacgc cgtggatcat gttcaggcct 120
gagaaccaca ccacgcctta cccgccgtgc cgccgggcca agtccatgga gccgtgcatg 180
cacgggccgc cgttctacga ctgcagggcc aagcacggcg ccgacacggg gaagctgggtg 240
ccgcacgtcc agcactgcga agacatgagc tgggggctca aacttgtcca tcccagtgga 300
aacagcaata ataatgaaaa agaatatctt tttt 334

<210> 22262
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G4

<400> 22262

ggaacgaaga tggcttgttt attagttcag ttgcctccag ctcaaacctg tgggctttaa 60
ttatggatgc tggcactggg ttacatctc aagtatacga actttctagt tactttcttc 120
acaaggaatg gataatggaa cagtgggaga gaaatttcta tatcactgca ctggctgggtg 180
cgaataatgg aagctctttg gtgattatgt caagaggaac acaatatgcc cagcagtcct 240
acaaagtaag tgatacatct cctttcaaag ggataaaca aaaatggaag gagggcttct 300
atgtcactgc tatggcaaca gctggaagcc gatgggcagt tgtcatgtcc cgcaatgctg 360
gtttcacttc tcaggtagtg gagcttgatt tctta 395

<210> 22263
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G5

<400> 22263

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cttgttcctc ctggtcctct tctgcatcgt gcatggtgag aaggaagagt caaagggcat 120

cgatgcgaaa gcgtccgggc ctggtgggtc cttcgacatc accaagttgg gcgcctccgg 180

caatggcaag acagacagca cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg 240

cactgggaag cagacaatcc tcatacccaa gggcgacttc cttgtcggac aactcaactt 300

cacaggccct tgcaagggcg acgtgaccat ccaggtggat ggcaatctgc tggcgaccac 360

ggacctaagc cagtacaagg aacatggtaa ttggatcgag attctacgcg tgga 414

<210> 22264

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G6

<400> 22264

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gtcgcgggtc tggccgcgcg gccggcgtct gcaggcggg gagccgcggc ggtggcggag 120

atctgcatga agactccgtc ccccgacctg tgcaccagga cggcggggaa gcacgccaac 180

aagtacaagg tgggtggacgc ggtgacggtg ctagagatgc aggtggacgc gttcaagaag 240

cgcgtgaagg cggcgcggag gctcgccaag gaggaggta agacggccgc gacgcccag 300

gcgcggaggg cgctgaacct ctgcaagacc tactacctgg acgccgccga caacctcggc 360

gcctgcaagc gcgccatcgg ctcccgcgac gccgtcacca tccgcgccac gatgagca 418

<210> 22265

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G7

<400> 22265

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gctccggcgg ttgatgccca agctcctcga accgaaccca aacaacagga tcacgatcga 120

gaagctggtc gagcaccctt ggttcaagaa ggggtacagg ccggccgtca tgctggcaca 180
gccgcacggc tccagcagcc tcaaggatgt ccaggtcgcc ttcagcaacg ccgaccacaa 240
ggacagcagc accaaggtgg aacagccggc ggacagctcc ttgaagccgg cgagcctgaa 300
cgcgttcgac atcatctccc actccagagg gttcgacctg tcaagcctgt tcgaggtgga 360
ccaagagcag aaggccagca actcgcgggt catgaccag aaaccggcgt cggcgatagt 420
gtcaaagctg gagcāaatcg c 441

<210> 22266
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G8

<400> 22266
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gcacagagta gaggtgaaat tcatgccaac tcatgccaac tcgttctagc cgtggagccg 180
cgcccagga ggaccgctgt ggtctgccga ggccggccgg ttgggcacgc gccgcgttgg 240
gatgcatggt tgctggggcc agaccgcgcc cgcccctgcg ccggatccga ggccgaggcc 300
gcgcccttgc ccggaggcag agcagttcgc tgctcgtggc cacgcggagg ccgagcgggc 360
ctgcctgcgc gcgccgggtg gcgaggccga aactactca catctgtgta catgcagtcg 420
c 421

<210> 22267
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-G9

<400> 22267
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ggactatctt agcttcaaga gaccgacca ggcaagatcc attgatcgat ggagctgctt 120
cctctgctca cgtggctcct ccttgccgac gccctggcct gcctggcctg gacggccgcc 180

gcgcggcgcc ggcagtctcg gtgctacctc ctggactacg tctgccacaa gccagcgac 240
gaccgcaagc tgtccacgga gacggccggc aacgtgatcc agcgcaacgc gcggctgggg 300
ctcaccgact accgcttcct cctcccgctc atcgctccgt cccggcatcg cgaggagacc 360
tacgccccgc gcaacatcct ggagggccgc gaggactcgc ccaccctgca ggacgcggtg 420
gacgagatgg acgccttc 438

<210> 22268
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H1

<400> 22268

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ccagcatcaa tgtcgagaac gttgaggaga accgccgtgc cctccgtgag ctctatttct 120
gctgccctgg tgctctccag tacatcagcg gtgtgatcct cttcaggag accctgtacc 180
agaagaccaa ggatggcaag ccttttggtg atgtcctcaa ggagggaggc gtcctccctg 240
gcatcaaggt tgacaagggc accattgaag ttgttggcac tgataaggag accaccaccc 300
aaggccatga cgaccttggc aagcgtgctg ccaagtacta 340

<210> 22269
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H10

<400> 22269

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gatggcacat tcttacagc cacgtattga cgagcaactc atgcacagtt ctatttatac 120
ccctggatca ccctatactt gcgatgtccc tatggtacaa gaggccatag acgccatag 180
taggatccac ggatcatcac cagatgagaa gatagacatc acctaagcta ttataaagag 240
gctcgactgg atccaagccc gactctttg ctggcatcat agcaactggtg atgagcaatc 300
taaccatgat ccgaatgacc cgcaga 326

<210> 22270
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-H11

<400> 22270

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ctcccgcttc ccagatctcg ctgcctcggc gccagttgcc tcgcagtttg gatcatctca  120
tacctcggcg aagatgaggg agatcctgca catccaggga gggcaatgtg gcaaccagat  180
tggcgccaaag ttctgggagg tgggtgtgca tgaacatggc attgacccta cggggcggtg  240
cactggcaat tccgaccttc agttggagcg tgtaatgtc tactacaatg aagcctactg  300
cggacgcttt gttccccgcg ctgctctcat ggatcttgag cctgggacaa tggacagtgt  360
ccggaccgga ccctat                                     376
  
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<210> 22271
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-F8

<400> 22271

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tgcgaaagcg tccaggcctg gtgggtcctt cgacatcacc aagttgggcy cctccggcaa  180
tggcaagaca gacagcacga aggctgtgca ggaggcatgg gcatcggcgt gcggcgccac  240
tgggaagcag acaatcctca taccgaagg tgacttcctt gtcggacaac tcaacttcac  300
aggcccttgc aagggcgacg tgaccatcca ggtggatggc aatctgctgg cgaccacgga  360
cctaagccag tacaaggacc atggttaattg gatcgagatt ctacgtgt                                     408
  
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<210> 22272
 <211> 207
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E11

<400> 22272

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gggagggacc atatctaccc acggacggtc tctcacggtc attactgggg gcagcgccat 120
gatgccgttg tgtatattct acgttcacat agtggtcgtc gtacacatcc accacttact 180
ccaggagcgc tacttctgtg acaaata 207

<210> 22273

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E12

<400> 22273

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gagacgtgcg tcgacggggt ccccgatgac gaggccaagg ccaagggtgaa ggagtcgttc 120
aacgatggga aggagctcac cagcaacgcc ctggcgctca tcgagaaggg gtcacgcctc 180
ctctccgtgc taaagggcgg ctcgaaacga cggttgctcg aggaggaggg agaaccggcg 240
caagccgggc ctgcactcga caaggacggc atcccgaat gggcgcccga cagtgcgcgg 300
agggtgctca agggccgcgg cttcaagagc aactcacgc caaatgtggg ggtggcgaaa 360
gacggcagcg gcaagttcaa gaccatcaac gaggcgctcg ccggcatgcc aaagacctac 420
gactgaagat acgtgatcca agtga 445

<210> 22274

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E2

<400> 22274

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gccgctcgca gagctgagga cgctaccgta ggaatgggag cagaaaccag gaggaggaga 120
cgttactcgc cccaaagtct ccgtcaacct atctaactcg tagtcgtcag tcttttagac 180

gggaagagag atcatttggg cacagagacg aaggcttact gcagtgccat cgctagagct 240
gccatcaagt acaagtaggc aaattcgtca acttagtggtg tcccatgttg tttttcttag 300
tcgtccgctg ctgtaggctt tccggcggcg gtcgtttgtg tggttggcat ccgtggccat 360
gcctgtgcgt gcgt 374

<210> 22275

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E3

<400> 22275

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cgaagcggag tagtggaagc agaggcggca gccatggccg tgatggagaa gctcaagatc 120
tttgctgta aggagcccg agtcgcggcc tctgcctca tcgctggatt cggctctctt 180
cttcagcag ttgtccggcc aatcctggat tcatggcaga ccgcggaaca agttcctcca 240
cctcttctaa atgatgtggt tgcaggtgtc accggcaaga aaaagtagtg aacttgcat 300
gttttctcat gccaatgttg cccacattt tcttccccgt gtttttctg gcgaccagat 360
tggaaggctt ttcccaagag tcac 384

<210> 22276

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E4

<400> 22276

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atcgaattcc ttcctatcga attcctatag taaaattcct ataggataga acgtacacag 120
ggtgtacaca ttatatatga atgaaacata ttcattaact taagcatact ccttttttta 180
tttaatgagt tgatattaat taaatatctt tttttttaga tttttgcaaa ggtttcattt 240
acgcctaatt catatcgagt agaccctgtc gttgtgagaa ttcttaattc atgagttgta 300
gggagggact tatgtcacca caaacagaaa ctaaagcaag tgttggattt aaagctggtg 360

ttaaggatta taaattgact tactacaccc ccgagtacga a

401

<210> 22277

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-032-Q1-K1-E5

<400> 22277

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cggcagctgg ccaaggagaa ggcgtacgcg gcggagaagg tcgtccagca ggagatgctc 120

aagtacgcca aggagaaggg tctggtgtcc ccgaccaacg gcacgggggtg gtacaggggc 180

atcgcccggg agttcgtgga cgcccacaac gagctccgcg cgcgctacgg cgtgccgccc 240

atgaagtggg acaaccagct ggcgcggcag gcgcggcgct ggtccaacgc catgcgcaag 300

gactgccaga tccttcacag cggccacgag tacggcgaga gcgtgttcag gagctacgac 360

gactggaacg ccaccgncag ggaagccgtc ttctggtggg gcaa 404

<210> 22278

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E6

<400> 22278

cggacgcgtg gactctaata ctgtgctgta ttattttcat ggcacctgtg gccattaaag 60

atccatggac acgtacagta ccaatacatg attcttcaca gttcaaaaaa aataaaaaata 120

aaaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaagtaat aaaaaaaaga 180

tataaaagga tcacaaagac aatgaaccat gatagtgcc aaaaactacat atggcaagcg 240

cctttgaact gcctcttcaa acttcaccgt gaagatcgac aacattgggtg ctgcatatgc 300

ccaatccgag gtacttgcaa cgctaagagg acactatggt actgcgagac gagtagcttg 360

gaccaatcca aagtatgggtg caatacttgc at 392

<210> 22279

<211> 439

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-E7

 <400> 22279

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 acatcatgat acattaatac cttcttaaaa tctatactgc atggtacttt atataaatta 120
 ctttgattgt atacattatc taaataatac actaaaggta aaaaaacgat ttttttatga 180
 attcagttaa ttcgtatata tacaaaaata aagtaagaaa tgtgattaag tttgaaatgt 240
 tagttttacg attgtgccac ttggtttatg aatatctgtg tatgtacttt taagagtaaa 300
 acaacagcat gttaaggcct aagtgcacat aagttattct atatttattg atcataatta 360
 acaataaaac acgaggaagc tgcaaattgt ttcattatct tcttcttcgt ccgatgtagc 420
 attccattta tgtgtgctc 439

<210> 22280
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-E8

 <400> 22280

 aggaatttga tcttcgagtg gctttgcctc tgggtgtgct gaatggtgct ctcaacgccg 60
 gagtggctgc gggagtcac ccatcattgg aaaggggatc tgcaggatct gtctcaccac 120
 ttgtagaaag atttaacttg ggtggtaata gggctctcgt gtgccgcttg ggtggaccat 180
 cttcactatt aggcttcaaa acaagagggc tacgggcagc aacagagtcc agaacacatg 240
 accccaacac tcttggaat ggcacttccc cttccctga gctaaatggg cttggagggtg 300
 aagtagcggg gacagccttt gccgacctgt catttgatct gcctctgaag ccgctcaggg 360
 agctgggaat ccatgggcat gcttttgtct gtgctggaaa tcttggtaga ttaacggaat 420
 gtgatct 427

<210> 22281
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-F12

<400> 22281

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gaccagcact tggcagtgcc gaccggatca tgaaaacttg tggattatca tccactgggt 120
ggctgtattg gcttgattgt gtattgcacc ttggattgta acttgcaaga tactctagcc 180
atgagctgtg tgcaacttga atttataaac acaacatata agatacaatt gacgcacgtg 240
cactaactgc cattccagca gagcttgtag aatgttataa aacataaact aac 293

<210> 22282

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-F2

<400> 22282

cccacgcgtg cggacaatta tctcgtaacc tttegggctc ctcttcctat cctcgcgtgc 60
ccccacaaa ccctaatecg agcaccacgc gttccaggcc ctaccgcgtt cctctcgcgc 120
cggccttttg ggctctcacc ctgagcggta ggaatccgca gggctccagt tgggtgccag 180
aagcatccaa gtcgttggcg ggagaccggg aaatggcgga aaaagagggg gcgaacgttg 240
gggcggaaga gatggaagag cgggagcagg aacgggaggc ggatgacgtg gacgtgaaga 300
ttcgacgatt cgacggctgc gacatcggcc ccgagcgtc 339

<210> 22283

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-032-Q1-K1-F3

<400> 22283

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cgatgaagct gctggccatg tegtectccg ccggcctatt tccatggcca cgacaaaatt 120
gaggatcggg taccacctac ctgcgtccat cggatgaacc tatgtcgtg ctgcttaact 180

gcacattgag attgagattg tgtggttgtc gctgctgctt aactgcacat tgagattgag 240
 attgtgtggt gttttgtttc aggttcagcc tcaccgncta ctgtggggag gacaacattg 300
 tagttntaga ctgctgctct acaagtacct actggcctac ttcattttca ggggtgccctt 360
 atttct 366

<210> 22284
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-K1-F4

<400> 22284

cccacgcgtc cgccacgcg tccgcggacg cgtgggttcg gctgccctgg tgttgccaga 60
 tcctcgacgc attctccggg gttcccggcc accggtgtcg cgggtggtgaa caaggggatg 120
 ggcgtatcgt atccgtcaca cagtangccg gacgtgctgt ctagtccggg gacgccgagc 180
 tgcaatcggc gtgggatggc aggcgttggc taccagcagg gtcctcgttc agaaagagtg 240
 atcccgccctt ggaccggcca tacaagccat tctgggagcg gcatggtgtt accttacagc 300
 actgggactg ggaggacgct gccatcgaat tgggaggatg cagagagggtg gatcttcagc 360
 cccaacccca cccaacaat gcaactcgga 390

<210> 22285
 <211> 448
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-F5

<400> 22285

cccacgcgtc cgccacgcg tccgctcttc ggtggagata aataccagga gatgaggatg 60
 aaggtcttag aaattaccag aatataagtt acgtaaagaa agaccgtcgt caaaaaccat 120
 ctccacatca ccaaatggat aaaccatcaa aaagcattct agcttaatat tggacagaat 180
 aattttcaaa gcattatcat aatcataata tctcagccat actctagaaa gaggttttac 240
 cagatacgat atggatccat ggcaaaagcc aattccaaag tgcatttcaa caggggctgc 300
 aaatgacagg caaacacttt aaaaggatct atgggacatc agtggcaaac actttaaaag 360

gatctatggg acatcagtgc atttcaagcc atcatccttc atggtgcaaa cctattacca 420
aagtatcaga tttttttata gcattttt 448

<210> 22286
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-F6

<400> 22286

ggaagtgtgg atgtcaattg tgggtgcatgt gcttgggtct agtgctacaa actgtggagc 60
acccattcca agttgtgtag tgggttttcgg gtgccttggc gaatgccttt gcacctaac 120
acctaaagtg gcggacattg cgtgaggctg gcttcacaga gcagcgagta cgcgccgcca 180
ccagaggtgg aaggataatg agccgctatg ctctaggcca attagggaac atgtgccctc 240
tatggtagac cactatcttt t 261

<210> 22287
<211> 353
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-F7

<400> 22287

cggacgcgtg ggcgtgaaca acgtggatgt gtccgggatc actctgatca actgcaaggg 60
attccacatg aacatgtaca agtgcaagga catgctgatc aaggacgtca atgtgacggc 120
gcccggtgac agccccaaca cggacggcat ccacatgggc gactcgtccg gggacaccat 180
caccaacacc gaaatcggcg tctgcgacga ctgcatctcc atcgaccccg agacctacaa 240
ggtgaacatc accggcgtga cctgcgggtc cggccactgc atcagcatcc acagtctagg 300
gcggtacaag gacgagaagg acgtcacgga tatcaacgtc aatgactgca cgc 353

<210> 22288
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E10

<400> 22288

ccccacgcgt acggccacgc gtccgcaaga tcctgttgga gttcaaggaa gaaaaatctt 60

aggacagga aaatatcgat gccgcgagag cgtgggctgg tcccttgctt gggaatcgtc 120

tcgttggtgc tctgaggaa cgtgatcag atactgctaa cgttacaatg aaactgccag 180

caataagcct tgatgggtat gctgcctatt ctgttaggga tctgtggaag catgaaactc 240

tatcgaaaa tgtcgtacga acttttggcg ctcaagttga cgtgcatgac accaagatgt 300

acatcttttc tcctgcaacc attgtcgctt cagtctgatc aggaccggtg gatccaagat 360

gacagcaccg ctattgttca aggatatgtc acgacaacaa gcgccttcgg ttttcctgct 420

gcattct 427

<210> 22289

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-C5

<400> 22289

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ttagaatgct caatgcgcct tacattcaaa tttcaaggcc tgattgaggt tgaaataaat 120

acttgaaggc cagatctggt ccttatgtag cttgcttccc ctctctagg ggccgaggga 180

gcttctagtt aggaatgctg gattagtttg agaagttgca gactgttaga atgctcaatg 240

cctagttcta gtcgcga 257

<210> 22290

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-C6

<400> 22290

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gcgcgcggc gggcgacctg aaggcgcgtg agatccgcat gctcgccgc atctctgaca 120

tagagctgc gttgcagaac caccagatcg ggtcgctatg catctccagc gacttctcat 180

agaaaggcga agtactcgcg gagactaccg agaggaatat ggacgtcgtc atgaccgcgc 240
tctgcctgcc ggactataac gagcgccaac agcccgccga gtactatgac ccgtaccatc 300
aggagctgca gccgcctg 318

<210> 22291
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-032-Q1-K1-C7
<400> 22291

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tgctatacca cctctcgatc actgtatcgc ttgtcctagc tcgtggcatt atcatagccg 120
gtgttgttga catagctcca cgtcccactc ctctacctct tcctccgcag ccacttcttg 180
caccctctcc gactcctcgt cctccaggtc ttggggcccc tactcgcact cctcctcttc 240
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gtccatgggtt gggggcacct tctcctgcc gtgttcctcg tcctccacgg ctccggagcac 360
cccctcgtac tcctgttctt ccgtctcttc gagtaggtgc tccatcttcc gcaccttctt 420
ctgttc 426

<210> 22292
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-032-Q1-K1-C8
<400> 22292

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gagcttctgc ataagaacaa caaatcaaaa gcgtgatcag ctccggtgcca aaaaaacctc 120
aacaaccaag tttcatgtct gatctcgacg tccagcttcc atctgccttt gatccgtttg 180
ctgaggcaaa tgctgaggac tctggtgctg gtcttgaac gaaggattat gtgcatgtgc 240
gcatccagca gcgcaacggc agaaagagtc tgactacagt ccagggtctg aagaaagagt 300
tcagctataa caagatctc aaggatctga agaaggaatt ctgctgcaat ggtactgtag 360

ttcaggaccc agagctaggc caggtcattc

390

<210> 22293

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-C9

<400> 22293

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ggatcgagac aaaaccttga agctcactta tgaagaaaga attcaaattgt cgaaggaagc 120

cggaccagaa atggaccctt tgggtgacct aattaccgaa cttgaaaaaa aacttggtcg 180

gtttgtaagg gaaaagttta ccccaaattt tttaatccgg attaggtatc cttgggctgt 240

acgtccgttc tacacaatgc cttgttatga caaccatcg tacaccaatt ctttggatgc 300

cttcattcaa ggaggggaga taatatctga ggcacaaggg atacacactc cagatctggt 360

ggccaagcgc 370

<210> 22294

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D1

<400> 22294

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accacttgat agaccttttt tattttttta ttcaataaaa ggatataagg tgtgtgacaa 120

caacacaaat attgtattat ctatgtatct cctatgcaat cccaatttta tcatggacac 180

attttaaaat gaatacatat ttttaatgaa taatcgaaat atatgatata tatgtatcaa 240

ttctag 246

<210> 22295

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D10

<400> 22295

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tccagagaga tgcaatgtcc ggctcgcat acatgactta cccgggcaca caggtcacat 120

tcatcttcgt ctatgatggc catggttgcc catgagacct tcggttgcac caatgactac 180

ctatgcaacc atctcagaaa gtttgcaact gatcgcatgt ggatgtcagc aaacctgacc 240

cggtaaagctt tccaagctac tgaagatgga tgactctcta tagtcagcaa ggaatggctc 300

gtgaagcatg agattcgaca agacgactgc cgatacctcg taagcataat cagcgatctg 360

acatctgtat gtggtatacg tgttcaactc aaatgc 396

<210> 22296

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D11

<400> 22296

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gcttttagtcc cagttttctg ctttgggcag agctatgcat acaagtgggtg gaggcctggg 120

ggtaaattgt ttatcaagat cgctagagca gttaaattta ctctattat cttctgggat 180

agatttgcca caccattccc cttcccaaaa cccatgcatg tggctgtggg taaaccaatt 240

gaagtcaata agattcccca tcttacaatt gacgagacaa ttgcaacagt atgcatgttc 300

ttggcgggaa aagttgacga aacaccaga cctctgaagg atgtcatact tctttcatat 360

gagatcatcc acaaaaagga tctgtctgca gttcaacgaa tgatacagaa ggaagtatat 420

gaacaaca 428

<210> 22297

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D12

<400> 22297

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gagtgactca ccagaagttt gctcggcggg atggttttct tcttgaggat gttgcatctc 120
aagatccact cagtgtttca gttgcaattc ttcattcagtt caacatttta cctgagatgt 180
atcaagttgg ctacacaaag ttgttcttcc gaactgggtca gattggcaac cttgaagata 240
ctcggaatcg tactctgcat ggtattttta gggttcaaag ctgtttcagg gggcatcaag 300
cccgtcatca tgcaagagaa cgaacaagag gagttttgac tcttcaatca ttcattcgtg 360
gtgagaatgc acggcaaatt tactcctctt tgttgaggaa acatagagcc gcagttgttt 420
tgcagagaaa tgtgagatgt tgg 443

<210> 22298

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D2

<400> 22298

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cgcgccgccc ctccccctcc gggcgctcgt cctcgacgc tctccgatcc aagatgtata 120
agctggggag aggaaaccgc gacaaggtgc agcagttcat gaccattacc ggcgccagtg 180
agaaggttgc ctttcaggca ctgaaagcta gtgattggca cttggaagga gcttttgact 240
tcttctatag ccaacctcag gtttctgtgg tcaatactcg gcatcttgaa gatattttca 300
acagatataa agaacctgat gctgatatga taatggtgga aggaatatct caattttgca 360
atgatctaca ggttgatcct caggatattg tcatg 395

<210> 22299

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D3

<400> 22299

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ccttcgcaa ggggtaccac ggccggaacc ttgcgttcgg cgagagcgtg gccatcaagg 120
tcatcgaaa ggagaaggtg atgcgcgctg gcatgatcga ccagatcaag cgcgagatct 180

ccgtcatgcg cctcgccgc caccccaacg tcgtgcagct gcacgaggtg atggccagca 240
agagcaagat atacttcgcc atggagtacg tgcggggcgg cgagctcttc gcccgcg 297

<210> 22300
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-032-Q1-K1-D4

<400> 22300

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gtatctatgc agtgggaact atatcagaca gttattcaaa aatgtacctg aacaccaata 120
gtacgttga gaacgttgct tcgaccagga ttactatctt cgatctgaaa ctctgataag 180
cagaattgaa gacaaacgat cgggtacttg gggaatatgg aatttattta ctgttggttt 240
acctagtact tgcctaccag ccaggcgccc caggggacga cggcaaagat acagtctcgg 300
gtattaggat ggcaaaggca gcgatagata aattctactc caagtatatg ttgggatcac 360
gtaagctggt gcttgacca cattcaacga tctttggcaa aaggatgctn gtcaaaagtg 420
cgatcat 427

<210> 22301
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-032-Q1-K1-D5

<400> 22301

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ccgatgccga gntatccagc cctcgtctcg cgacaacgga actggcatgg tcaaggctgg 120
gttcgccggc gacgacgccc cgagggccgt ctccccagc atcgtggggc gcccgcgcca 180
cactggtgtc atggtcggga tggggcagaa ggacgcctac gtcggtgacg aggcgcagtc 240
caagaggggt atcctgaccc tcaagtaccc catcgagcac gggatcgtca gcaactggga 300
cgacatggag aagatctggc atcacacctt ctacaacgag ctccgcgtgg ctcccagga 360

gcaccccgctc ctcttcaccg aggcgcccct gaaccccaag gctaacaggg agaagatgac 420
ccagatcatg ttcgag 436

<210> 22302
<211> 82
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D6

<400> 22302

attatattgt acctaagtat tacttggcgt cccatgaatc cgttgtaa atcaagttgt 60
aatttctact atcttcgttc tc 82

<210> 22303
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D7

<400> 22303

tcgaagatgc cgaaagcata gaaaataccg ttacaagtta aaccagcata tgatgctgcc 60
tgatcactgc tgtctgaaaa ggtcagatat cgtgatgatg atggaatgga ttctattctt 120
gacgtagatg atgtccta at tgatgctgac aggatggata acgatattac tatggacatt 180
gtgcgataag agatgaacgc ttgtggcaga cgatgatcaa tcagtcaggg tgagagactt 240
ctacgtgaca tatctgaagt ttatgttgac ac 272

<210> 22304
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D8

<400> 22304

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgat ggacaactct 60
ttagggcgct tgggtgtattc gcacagagga aaatcaacct cacaagatc gaaagtcgtc 120
cacacaagga gaggcctctt cgagtatctg atgactgttc ctactctta aagaattttg 180

attacctctt ttacgttgac cttgaagcat caatggctga tccaaagatt cagaatgctc 240
 ttggaaatct gaaggagttt gcaacctttt taagagtcct cggaagctat cctacaaatg 300
 tgaatgaacc ttagaaaaca ctgcagatta catgatggat tagcaggaat ggacgaaatg 360
 gtttgagttg gttctctgag caagttgaca agtgaggacc tctatgaagc tgatgctaac 420
 attta 425

<210> 22305
 <211> 343
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-K1-C4

<400> 22305
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 cggacaaagc cggggccgtt cggcgaggagg caggggacgc acgggcaggc agccatgaac 120
 ggcatacaacc ccaacggcgg gtctctgtcg tacgggaaca tggagagcta cgcgatgtgg 180
 gtggcgaccg gcgtggcgtc ggccttcttc gcgtccctcg agcgtgctc ctgcatccac 240
 ctncacaccg cggaggacga cggcgtcgag gaggaggagg acctcgagga ggcccgcgcg 300
 tccttctccc gcccgatccc tgagtactac tacgaccggt ccg 343

<210> 22306
 <211> 80
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-D9

<400> 22306
 aaaaaaaaaa aaaaaaaaaa aaaaaacaat tttaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaagaaaatt tgtcagacga 80

<210> 22307
 <211> 273
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-E1

<400> 22307

cgtacgcgcg catggacgac gatggatccg tccaccgttg ccattgcagt tgcctcgctc 60
gttcttgggtg actgttgctg cgggtggcga cttggaagac gtcacctgca ccgctgttcc 120
catatattat tgatgtgacg tgatatgatt atatatgcat ggtgacgggt ttatgataat 180
tccatagaca taatttaatt taatttatgt atttgtgtca agtcgttctg taatcatgcg 240
atgaaatata tgatttggtt ttccatttgt ttg 273

<210> 22308

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B1

<400> 22308

gaagaagaga aatcttgggc ccgagcagac tgaaatgcc gagggaaaaa cccaagacaa 60
tcccccttc caagcacgct tatcaaacca tcaaccctaa catattaagg cactgactta 120
attcacacgc agaaatcaac ggtttgcagg aaatcgcca tgccgcggcc gaggtcgag 180
ccaggcatct ccgggaagac gtcgttgata tcgtcgaggt cgaggtcgat ctccagttcc 240
tcgtccccga agtcccaag cagcaggctc tgctcatcgt ccaggcagaa gggcgcatcg 300
gagacgtcca gagcgtcaag cccggcacgg aagtccatcg ggctgatgtc tggcagctgc 360
aggccgcgg 369

<210> 22309

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B11

<400> 22309

cctctctccc ttctcacca tcacatccag tcagccaaca aaaatgtcg gcgtcacagc 60
tgcggtgctc ttctacatcc tcgccgtagc tgccctcagc gcggccgaag ccccggcaga 120
gtcaccgaag gaaggcagtg ctgccaaagg acctgagtct gccaaagaaa ctgctgcccc 180

cgctgaagca cccgaagccg catccacccc cgtcgcccgc gctgccccat cgccgtcgtc 240
 taagaagtct ggtccagcta ccgcgccagc caccgcctct acaccccctt ctccacgga 300
 cgaggagttg agcccttccc cgccagcatc caccgcccgc gcgtcccctg cggctgaagg 360
 accggctgct gatgactccg ccggtgctgc tgccttgga agtggagctg ccatcgccgg 420
 cg 422

<210> 22310
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B12

<400> 22310

tgcgacaaga ccgtccactt gatcaacctc ctcacagccg acggcggttac ctaccatatg 60
 acatgcttca agtgcagcca ctgcaaaggg atcctctaca tgagcagcta ctattgcatg 120
 gacggcgcg c tgaactgcac gaccacttc gagcagatct tcgtggacac cgacagcttc 180
 tccaagatct tcacgccaag tggccagtct tcagacatgg gtgtactggc ctgaggcccc 240
 agcatgctat catctgcgta gtctggtact cacgagaagt gt 282

<210> 22311
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B2

<400> 22311

cggacgcgtg ggcggacgcg tgggaggacg cgtgggcgga cgcgtgggag gacgcgtggg 60
 cggacgcgtg ggcggacgcg tgggaggacg cgtgggcgc acaccaccgc atggaattgc 120
 tctcgacgcc cgattgagcc gagcgatgtg agagattggg agaccatgcc ctctccccgc 180
 caccatggat tccgcctgt gtggccaact gggcactgga ggatggcttt ggcgcttcac 240
 cggtaactg ggatcatgcc cagggcccg gggatgatgc gagtttggct gggagaatgg 300
 agc 303

<210> 22312

<211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-B3

 <400> 22312

 cggacgcgtg ggcggacgcg tgggcggtcg cgtgggaaaa aaaaaaaaaa aaaaaaaaga 60
 aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa 120
 aaaataaaaa taaaaataaa aaaaaaaaaa aagaaataaa aaattgatga agtcgaagta 180
 gaatgcatca catttttgca aagaaaaagt taaatatata tcttgtcaaa aaagatttaa 240
 atgatcttat tt 252

<210> 22313
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-K1-B4

 <400> 22313

 aacaactttg cgtcttcccg aatcggggcc tccaccatct ccaactgcaa cccacccga 60
 taccgccgcc gctccgcta gggttttgga gtgaggatcg ccgatgtoga cggctcccag 120
 ggcgcccttc cgaggccgcg ggcgccgcc ccttggcacc ggctacgttc gccgcggccc 180
 cgcccctgcc ccaggccccg ccgacggcgc caagaccctg cgcaagcccc tcttcaccac 240
 cgtcgaccag ctgcgcccc agacgcacgg ccacaccctc naccgccgcg tcatctccgc 300
 ccgcaccgtc ctcgacaagc ccttcacgca catcgccgc acccgcgctc cagagtgcct 360
 cgtcggagac a 371

<210> 22314
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-K1-B5

 <400> 22314

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 ggtgacgacc togccgccct gcacgagcag gtgcgcctcg cattctccgc cgccatctcg 120
 gcctccgacc togaccttgc cttccagctc caggtoGCCG aggccatcca agcctccctc 180
 ggcttgccca atgccgcgcg cccgtcatca tcgtcgcaag ccgccccaga gtcacccctc 240
 gacgccacct acgccttcgc cgtccaggcc gccgatctcg cgcgcgcaga ggaggaccgc 300
 cgcgacgccg aggccctgcc agccgncaac gcccagaccg nccgncaacgc ccgcgtcgtc 360
 gcgcacgacg cctctcttcgc ccgcg 385

<210> 22315

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B6

<400> 22315

aggccggggc gtgccggatc ggcgcgcgcg cgtcgcggcc cgcgcgcgcg gccgcgcgcg 60
 cgtcgtcggg ctcacgcagc tcgtgctga cgcagctcat cgcgtcgtcc tccttcggcg 120
 gggccgcgtc gtcgcgcgcg cgcctcaccg gcacgctctt cggctaccgc gacggccgcg 180
 tgctcgtgct gctgcagcag aacgcgcggg gccagccac gctgggtggc gagctggcg 240
 tcccagcga cgcgtgctc cgcgagctcg gcgccacgc gggcgcgcgc atcgtgctgg 300
 aggtcgagaa gcgcgcgcg cagggcaccg ccgacggcaa cagggccatc gccaccaccg 360
 accacgacgg gtgggtgctg gaggagctca t 391

<210> 22316

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B7

<400> 22316

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 ccaccgagga gaaggctctc cttgtactca ctaggcaagg aggggcgaag gcgccgcagg 120
 aagggaacgc cgccaccgcc atgccgcgcg ccacttgtaa tctccgcgat gctctagcta 180

gctacagtac ataacaatgc aatgagcgag cgaccggcaa ttcaaactcc aatgccgtat 240
gtaatcggta agtaaagtac ctgataccta agt 273

<210> 22317
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B8

<400> 22317

gtacggctctg ttggaatgga ttaggtgtgg ctagtttttg tttgggtgcat cctcgtatgt 60
gcttttgcag gaagattttc gtaggggtg tagcttggga gacaactgaa gaaacattca 120
caaagcattt tcagaagtat ggagctataa ctgattctgt gatcatgaag gacaagcata 180
ctaggatgcc tcgcggattt ggatttgta cttttccga tccatctgtg cttgacaggg 240
ttctagagga tgaacatgtc atagatggaa gaacagttga agtcaaaagg actgttccaa 300
aagaggaaat gtcacgaaa gacggctcta agacaaaaa gatctttgtg ggtggta 357

<210> 22318
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-B9

<400> 22318

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acctggccgt gctggcgaag tttgtggcg acgatggcga catcgtgctg atggaaatcc 120
aggacaagtt gtcggctgag tggatgcca tgaagctctc ttggggctcc atgtgcagga 180
tggaactgc caaggcgtc aagggccct tctctatccg cctcaccagc gattccggca 240
agaacgtcat cgctaaagac atcatcccgg cgaactggag acccgatgcc gtctacactt 300
tctacgtcca attctactag actttgaatt gccttcgatt catcggcgc ggggggtctat 360
ggacctgcag cagcaagcta attaagctgg ccgatatcta tataatatat aatggaagcc 420
ctgggc 426

<210> 22319

<211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-C10

 <400> 22319

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 cggtaggaaa tctatggacg tcttgaagag aaggcttaaa gattgtaact aaggaataaa 120
 tcgctggcac tatcatatag tatctatctc ttagatttca acttcctcaa ctgctttact 180
 agagttggtc gacttgtctt tgtaggagaa gtgtctatac atctcgagag agtgacacca 240
 catgaagcta gacagagacg acgcctataa gctattcagg ctgacgatgc tttacgctta 300
 cattccactg gccgactggc tcgaccgctt atgcagactt ggctaactctg ctattcagag 360
 ctagcgctt cgattcgctt aagacagtga c 391

<210> 22320
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-C11

 <400> 22320

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 cctcgtagtt gagtcagaac aaggcgcgga tgggtgacgac agagctgtgg gatctcttgg 120
 cctccgactc agagcaattc gtggagatgt gcagggtgta tcaacacctc aagctgaaga 180
 actggtttgt aaggtcgaga ctacagtacg gggcagactt tgttgctcac tgtcatcgtc 240
 cgacacttgc gcactcgtag ttcgtggagg ttgtggctct agaagggaaa gcattcgaca 300
 ccagggtgtg cctcatgaaa gtctggctct aactattatg tgtgctttgg gactcttcaa 360
 gtgtggccaa gacgttactt attcttacca tcagcaccaa gagctatgag ctaggataact 420
 tggatt 426

<210> 22321
 <211> 440
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-032-Q1-K1-C12

<400> 22321

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ttggagattc aatcgtggac acaggaaaca acaactacct ggtgaccgtt gtgaaggcca 120
acttcccgcc gtacggcagg gagtacccta accacaaggc tactggcagg ttctccgacg 180
gcaagatcac cgaggacttt ctagcgtctg cgcttgggtt gaaggagacg ctcccgccat 240
acctgaacaa gagcctcacc ctggaggacc tcaagaccgg cgtcagcttc gcgtcggcgg 300
ggagcggcta caacaacgcc acgtgccgga cgtcgtcgac catgacgacg gagcggcagc 360
tgcagttggt ctccgagtac aaggcgaagg tggngggcat ccacgagagg gccctcttcg 420
tggtctgctc cggcagcaac 440

<210> 22322
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-C2

<400> 22322

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caagcgcaac acgccaacac ccgagacccg acgcggcctt cgccttcctt ccgcgcgagg 120
gagattcgag gggagagagg ttctcacctt cgcgcctgcg gttgcttggc gcagagtctg 180
cgcagatgga ccggtaccag aggggtggaga agccgcggga ggagtcccct atcggcgcca 240
acgagatccg catcacggcg cagggccggc cccgcaacta catcacctat gcgtcgcgcc 300
tgctccagga caatgcaaca gatgacattg tcatcaaggc catgggaaag gcgatcaaca 360
agacagttgc catcgtggag ct 382

<210> 22323
<211> 351
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-C3

<400> 22323

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 gtatgtagac aaactcttgg atgttactga tgaagaaaga attccaatgt tcaccgatgc 120
 cagcccagaa cttgcaccta tctgtgacct cggtagcgaa ggtgccaca gactgcataa 180
 ggttgacacg caaaggtagc acacaccttc gaccatcctg ggacctcatg cttcaggtgt 240
 gcatgcgac tacagcatgc cgagttgtga gaaccagct tacaccggtt ttatagctgt 300
 gttgatgcgc tgcgaggtcg atctatctgg agcacgacgg atacacactc c 351

<210> 22324

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-H4

<400> 22324

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 tactctgccg acttactccg tcaacgattt cgtgcgtttc ctgtctctgc tctgactttg 120
 atgatgtctt tcctgggtctt ggtaaattat actaagctgt gacggagacg aagaaggctg 180
 ttctgtgtgc ttctgttgct gctgttcacg gtattgcggc ttctgttgat gaggttttgg 240
 tgtttgtgtt tattagtgtt cgtctggctg tgcctttgga tgctgggtgtt gcgtcgagt 300
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 gaggtcgtcg gtctgttaccg ttcgcacctg gccggacttt gccacacac acacacacac 420
 acccaagcat cccaaccgt gctctgatac gctgatcgac ttacctac 468

<210> 22325

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-H6

<400> 22325

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 tgtaaatgtt aacaaacata tttgtgggctg tgagtttaca gaatgtcgta ggggtgtgtg 120
 tcgactatta agtacacata cacagtatac tgacctcca ccaccgtacg tatgccaca 180

caagcgtcta ccgctccgtc gccgcaagcg ttagtataag tacacacatg gtgcccacac 240
 acatcatata tcttgactgc ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaagaaaaa aaaaaaaaaa aaaagaaaaa aaacagaaac gaaataaaga aaacacaaaa 360
 caaaaaaaaa aaaaaaaaaa caaaccaaac gacaacacaa aaccaaacca accgaaagca 420
 aaccgggtgg cggcccgacg ggaaaaatcc gc 452

<210> 22326
 <211> 504
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-H7
 <400> 22326

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 gttaggacgt tgacggcggc tactagtcgg aatttgacgc cgattagcgt gcgcgtctac 180
 ttgcgtatgt tggtaacggc gcttcttgtt tgcgtgtcta ctggttcttc tgctgttggtg 240
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 cgtggcgagg ggaagtagta gcttttgact gatactgcta ttaagtaggt tgcttttggt 420
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 ggttatgata ctatgtcggg gtcg 504

<210> 22327
 <211> 473
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-H8
 <400> 22327

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 ggtggcgaca gataacgtaa cgagagttcc gccttcccca gtgtctcctc gcgctgcgta 120
 cggcgagaag gtaaagctaa aggataatga cgtaaaagtg cttggggttg gcgggcttcc 180

tgatactatt aagccgggtg ttcttggtaa cggtaaagatg gacagtatga aggtcgcgta 240
ggaggtgcgg gtactagtgc gtggtggtat tgggaagtag atgacttcta cttttaaggg 300
tgatccttct gctggattat ctaatcctat aggtttacgt aagggatgatg cgattactta 360
ggcgaacggt aactcgcgg tgattatgga ttcaagttag cataaggact acggcaaccg 420
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<210> 22328
<211> 490
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-032-Q1-E1-H9

<400> 22328

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actattggtt ctgctaagtc tcctcttatt cctgctgtga ctgttattgt tgataagact 120
ggatgttggt tgtctccttc gtaggggtgt atgtagacga ctactcttta gacttccgcg 180
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agtgctatgg cggttgctaa tacgcctcct atgggttcta ctgggtagac tccttctatg 420
tcgtctcggt attcntgtcc tggttctect catcctcctg gtgttcgggc gtcgtctacg 480
atatctccta 490

<210> 22329
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-A1

<400> 22329

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caataaagta tccaacccta acgatccgga tcgccttacc ccgcgtcatc cacgcgaatt 180
gattcgatta tcctcggatt ttccccgttt ttttgtgggt ttctatctt cttcgatcgg 240
agtgc taggg tttgggcgcg ctccgtgggc ggcgtactcc agggtcacgc ttagttggac 300
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ggtagcgatc ccgctggg 378

<210> 22330
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-A10

<400> 22330

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ctctgggcga ctattacca gtgaaggcac tgtaccaggc gcatcgtcga cccgtccatg 120
tgccctgcacg aggacgctga ctaccggccg gtgatcagcg acgtcgtggc ggcgctctcc 180
ttactagccg acccgaaata ctaccctacc ggaggcacat gaagctgaac acatgagcac 240
gcatagcagg acagacaacg atagcagacc tcctaggacc tagaaggtea cgtgagacga 300
cgacatgaag catagatgac cgtatagggg gagctaacta acgggaaaca tggcaaaggg 360
aggatctgca gagctgtctg aatgatctct tcaatctgaa tttcgtataa ggcacaccac 420
gtaggcagga tgtaacatca t 441

<210> 22331
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-A11

<400> 22331

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acatgtgact acaggatgac gctgccagcc ggtcggggat catggacgct ttcgcgagac 180
tctcgttgct ctccgacctg caatactacg ctcacggagg cacggaagct gaacacaaga 240

tcacgcatag cattacacac aatgatagca gtcctttctac gaccgatgtg gtctgcactt 300
 acgacgacat taagcataga tgaccgcaga gggggagcta attatctgga cacattggac 360
 aggtaggatt tgcagagctg 380

<210> 22332
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-K1-A2
 <400> 22332

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 aggcgggcta cctcgtcctc caggtcaagg tcgacggccg cgtgcggtgg aaggtcggca 180
 gctggatctc cggccactac cacctcttcg tcacctgccc cgcgttcctc gtcaccgccg 240
 gcggcaacgg cgcggccggc gcttccgggt tcaggttcca gaccaccacg tactgccacg 300
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<210> 22333
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-K1-A3
 <400> 22333

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 taacgtcggc ctccgtccgt tctgactgcc catccaccga gcactggacc gacgatccga 120
 gtccacatga aatccttctc ttctgcaagg ttgactgacc gtatgcgtat gctagctcag 180
 aacctagagt accaaatcat ggcaagggac tgctcagtgc acggagttct gatctgcgat 240
 cgcttttgcc cgaactggc gcgctgatga gtgcacatgc gtctgattct gagtcaggaa 300
 aacatgat 308

<210> 22334

<211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-A4

 <400> 22334

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 gcaccgggcg ctgctgctgc tgctcctcgc cgcgcgcctc gtccgtgcgc tggccgctgt 180
 cgcatacgcc gacgacgcca acgccaagcc caccatcctg acccccgctg cgcatacccc 240
 gctgggggtcc ttcgacggcg acaagccggc ctctgacgac gacgccgtcg acgacgacga 300
 ggaacgccgc cctgtcggcg cgcccaacgg ggccaccatg actg 344

<210> 22335
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-A5

 <400> 22335

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 gctcactcac cacgctcttg tctgaccaac tctctctctc tcttatctcc ttccaagatt 180
 cccccatttt tttgttggtg tccccccat tcttgetagg atcattcctt gatctttcgc 240
 tcgctccagt acgcctgttt tccagctccg gagateccat ctcgccacc tctgcggtc 300
 tccaagctcc aagaggccag attccagcac aaatttgagg tcaatttgcc cgctgagctc 360
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 tcg 423

<210> 22336
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-K1-A6

<400> 22336

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ctgcagcttc agctgtacaa acgcaactat taagaagttc aaggatgcac ttgcgaagca 180

caagccagat agatgtagct ttggcccaac cggggggcta gacgaatcgg agttattagc 240

cttggcagca aacaaggaac tgcagttcac ctacaccagg gagccagaac tgactcccag 300

gggagatacc cccggggagg tcattgctcc cgagcccgca aagcttcctg ccgctacaaa 360

gcctttggtc aagctggggt c 381

<210> 22337

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-K1-A7

<400> 22337

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caacaatctg ttccggccgc caaacaaaac caaaaaaaaa acacactgaa cccaataatc 120

cgatcccaca gaaacttttc tctcggtccg ttogatcgat cgctgccgtg tcgtttgccca 180

gacaccatca gcacccaaaa ccatggcctg caacctggct cagtgcgcca ccgccgccgc 240

ggcgaccgtc gcgccccgca ccctcgccc tgctgcgtcc gcgtccgtct ccttctccgc 300

gaggaagccg gcggggcgca gcctgcggct gcagcggcag gcgtgctgcg agccgtcggc 360

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<210> 22338

<211> 509

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-032-Q1-E1-H3

<400> 22338

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actagatcta ccccccggtc taccacccat cgaaccaaac cgggacgaaa gctgaaacgt 180
 aaaatcccca gacggaacgt agactcctcg actcctaccc ggccgtcttc ctagcgaagt 240
 tactatacta gataaacggt aactacggta cctaaatcca atccgccagt ctcttcgcga 300
 gtagtacgaa gttggcctct tcccgaccac taatcgggtcc tcgcctgcaa tagacccggt 360
 acgtagcgggt aatccggcta ggtacagacc tctccgagct taatttttagc aggaactaaa 420
 ctaagacgtc ctatanaaca cgaaaaatcg gcgatatacg tatgccgacg gaagcattac 480
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<210> 22339
 <211> 491
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-G11
 <400> 22339

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 aagcgagacg ctaggcggta cactggaagc atgggtcgcg ggttcttgta ccgctaattct 180
 ttcctatggg actagaacta agatggtttt ggggtgtgga gggcatgcgg agaacgcgca 240
 tacagtagac gcgagtacgg ataacgccct gacggttact aggactatcg gaaatcatgg 300
 cgaatacttc gacgataaac acgatagtat cgtctctttc gcgacaagta acaccataac 360
 taaggacgcc gccggtgcc ataccggggc cgtcggcaca ccggaagggg acctagggga 420
 taaccctagt aatacccgct cgcttaacgc cctttctagc gcgtaactcg tatacttacg 480
 gaaccgccta t 491

<210> 22340
 <211> 134
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-G2
 <400> 22340

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agattaagtg tatagggttg aagcttgatg acgcccactc taagtcttcc gctaagtctc 120
attgccctcc ggct 134

<210> 22341
<211> 479
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-G3

<400> 22341

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tgggtgggtct atgttgcgga ctacgcctag gttcgagaat tatattatgt tccatttgtt 180
gcgttgttgg gttaagctta cggagttgcy tacgtatggg ttgttgccctc atgatcgtag 240
ggtaagtat ggtgttgata tggggaagtc ggcgttgtat gcttagtata gtgaagatac 300
gagtcggggg tctaaatccg cttactttga gcgaaatagt accaacaacg aaaagaacac 360
tcccccaac ggcctgaaaa aaaaaaaaaa aaaaggggtg ttgtctcaga ggacttaagt 420
ccatgcatgt gcgtacgtga tgctacagtc tcctcacagc gctattcaaa ctaaccta 479

<210> 22342
<211> 495
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-G4

<400> 22342

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agccgttctt agtctaaatt cgcgggtccc aaccacggac gtcggtatcg gccccatact 120
ctaagcacat gaatccctca gccatccctc ctataaggaa cggacaacgg aatagcggga 180
gagaaaccct cacactatcg tatcggtcgg cgtgaacaac ggaagtctcc cggcgaccac 240
gctaagagga atataacacg tttagtagct tcataaagca agcgacatac cttccctaa 300
acggacaaat aaaaaacgga aggaggggtc tcacgctatc gtcacggtaa tagtcggaag 360
ttgacgggta gccgctacgc tttgtaacgt cggccctatc ctctaggcag cggagtcgga 420

ccctccacac ttaagcgagg gtacttatac gtgccgggat aacggtcact gtaccatggt 480
aatggtcggt atacg 495

<210> 22343
<211> 506
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-G5

<400> 22343

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ctgcgtacgg cgagaaggaa gagctaaagg gtactgacgt gaaagtgctt gggttcggcg 180
ggcttcctga tactattaag ccgggtgttc ttggtaacgg taagatagat agtatgaagg 240
tcgcgtagga ggtacgggta ctggtgcgtg gtggtatcgg gaagtagata acttctacat 300
ttaagggtga tccttcgct ggataatcta atcctatagg tttccgtaag ggtgatgcga 360
ttacttaggc ggacggtaac tcgtcgggtga ttatggattc aagttagcat aaggaatacg 420
gcaaccggac tgagacctca tgtgcggaca attcggctac tattggtaag ggaaattccg 480
atgggtaggg tttacttgcg cggagt 506

<210> 22344
<211> 489
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-G6

<400> 22344

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ctcgtagggtg ggggagttgt ggtggcgggtg gagactcgta cgaagatctt gctttttgat 180
tcgcgtatta ggatgggtggg gaagtatgtt aataagcata aggcggcgga tgtggcgatg 240
gcgtcagaga cgtaggcgga tgtgcctaag aagtgtgcga aggtgggtgtg gaggtctgtt 300
aaggaggagg ctaagatggt tgtgatgttt gaggtgtgga ggggtgtcgaa ttctcgtaag 360

attcatcatt cggatgttgc tgataattct ggtgttcgta agtgtgttac tggtccttgt 420
 gatgttgcta ttacttgtgt tatgacgagt acggcgggtgt aggatatgta gaatcgtgat 480
 gaggagcct 489

<210> 22345
 <211> 501
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-G7
 <400> 22345

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 gcctacgatt tagaaattgg tgctgggtgac agcgctaaag tcggagtaga ctgtcgagat 480
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<210> 22346
 <211> 505
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-G8
 <400> 22346

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 aatctacgtt aatctgcctc agttgcggag ttgtgtttga ggaggattgt cgcggctcgt 240
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gtttgttttc gtgttgact tgaggtgag gttgtgtttc cgtttgagg tagagtagcc 360
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 tgaatatcat ctatactgc gcatactag ctgtcgggga gttaggcggg gccttagatt 480
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<210> 22347
 <211> 410
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-E1-G9
 <400> 22347

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 tggtaatgcg acttagtgta atgtgtggtc ggggtctatt gatcattgtc cttcctctgt 360
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<210> 22348
 <211> 486
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-E1-H1
 <400> 22348

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 aattgctgcg tttcttgcca gtcttcacct cgctgtttcg gcgtctctta gcatactagt 180
 ggcgcgactt ctctgagga gatttcgcat tagaagatta aggacggtaa gttccccgcc 240
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gccgccggta tcgacaagga gattattatt taagggttacg atgattccgg taagtgtcgt 360
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<210> 22349
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-H10
 <400> 22349

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 cctaacctac attttcggac tatttcacct ccgcgacgct ttgacggccg aagagggttac 180
 agattttact cgtaatagtt atggaatatt attagacgag aagaccgtta ctattaacgt 240
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 agtcgttaca ggcggagtca tttcc 385

<210> 22350
 <211> 491
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-E1-H11
 <400> 22350

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aatacgggtac cgatttcatt ggggtggcata tcggtaacct tgattcctag ccggagtgcg 360
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<210> 22351
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-H12
 <400> 22351

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<210> 22352
 <211> 518
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-H2
 <400> 22352

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<210> 22353

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-G10

<400> 22353

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 actggagtct ggacgggacg tttgcggtat tggcgtgttt tacctgcata cgcggttcgg 240
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<210> 22354

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-E5

<400> 22354

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 gtaggtgtgg tgtaggctta atgttacgtg taaggatcgt tagacttctt atagtggcta 360
 tgagcatggt cagagtgcgc ctaggagtcg tgatgatcgg aatgttattg ttagggaggt 420
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<210> 22355

<211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-E6

 <400> 22355

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 gaagactgct aataccggcg tcgtaaactg tttacttcag gcattccctaa tgtcaagcgg 360
 ttatcacggc ttccgcgcggg gcgcgcgtcc catttacgta aagcac 406

<210> 22356
 <211> 501
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-E7

 <400> 22356

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 actcacatcg tacggcatcc cacacaaacc atcccgaccg cacataccac tcaaacaaca 180
 tatcaaaggc aaaaaaatga cccccccacg aacctagcca acctgcacac acataaaaac 240
 aaagcaagaa acgcgaccaa gcccgaaacg ccagcccat gaccgcgtta tccggccac 300
 gaacactcgc gcacgcatcc ccaagagcaa aataatagta cgccaagggt caagcgtact 360
 caagccacct cacaccacc gactacaacc aataacaaaa tatgaggagg tcgtaaaccg 420
 ccctaccacc cctcctcctg cttgacgcag tactttaccc acgcgcgtct ctctttccac 480
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<210> 22357
 <211> 498
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 22357

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cgctaccgca ctgcgttctc aagttgtcta gggagtcggg aacttacggc tacgttcccg 420

ctcgcgtcgg aaactcnggc agaccaatgg agcgcgactc gtggaagcct ctcgccatcg 480

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<400> 22358

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tactgacgtg cgtgtatcat atttcacata gattcctatc cataaggagg gcgattacat 180

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gactagc 247

<210> 22359

<211> 405

<212> DNA

<213> Zea mays

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<400> 22359

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<210> 22360
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-F2

<400> 22360

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<210> 22361
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 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-E1-F3

<400> 22361

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<210> 22362
 <211> 505
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-F5
 <400> 22362

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<210> 22363
 <211> 480
 <212> DNA
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<400> 22363

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ctgggcggtc cggtgaacgt tcccgtaact caatattcaa agcgggtggat accgtgcgag 180

gtcggctcta tagagtagtg agcattgttt gttattagag gcggaaggac aacgagttgt 240

cacgtctcag gttaaccagg gaatacgcgt ttctcacggc agattatcac tccccaaaca 300

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg tggttgtctc agaggactta 360

agtcctgca tgtgcgtacg tgatgctaca gtctctcac agcgtattc aaacctaac 420

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<210> 22364

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-F7

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cgcattggtac ggtactacgg agtagatact gcagtgattg ctatgactat taatattgca 240

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agcaccgatt cgacgttttg gttatcgta tagtactggg agttcacgct ggcctaagga 360

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<210> 22365

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-F8

<400> 22365

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aagacgggtgc gtataaataa cgtcacgagg gttccgcctt cttcggcttc tcctcgtact 120
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cttcctgata ctattaagcc ggggtgttctt ggtaacggta agatagatag tatgaaagtc 240
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acctaagcgg acggtaactc gtcggtgatt atggattcaa attagcataa ggattacggc 420
aaccggactg agacctcata cgcggaacaat tcggctact 459

<210> 22366

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-F9

<400> 22366

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<210> 22367

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-G1

<400> 22367

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ccccccccaa aaaaagaccc aacccaaaag gggcaaaacg ttaaaaaatt cgggggcaaa 240
 gggcccggac ccacccggaa aacccaaata actggcaaaa agagcccagg gccccaaat 300
 aacgccaaaa aacgccccca aacgcagcga aaacaccccc ggcgaaaaac ccttcccaaa 360
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<210> 22368

<211> 485

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-E4

<400> 22368

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 tacacctacc aatccaagta catcttcccc cccacccaac gagccgacac caaccaaaaca 240
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 gaaatcaaag taagcgccgg acccaaagtc ggcgccaagg accacaaacc gatccatcat 420
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<210> 22369

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-D3

<400> 22369

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 atggttggaa ttctgtgctt ggtgagagtg cggttactaa ggctactgat aaggagaagg 180
 cgacgtgtgc tggtagcact gattagacta agtgtgagac tcttgctacg tgttctgcct 240

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<210> 22370
 <211> 515
 <212> DNA
 <213> Zea mays
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<210> 22371
 <211> 499
 <212> DNA
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 <223> Clone ID: LIB3066-032-Q1-E1-D5
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<210> 22372
 <211> 498
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-D6
 <400> 22372

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 <212> DNA
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 <223> Clone ID: LIB3066-032-Q1-E1-D7
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<400> 22374

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<210> 22375

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-D9

<400> 22375

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444

<210> 22376

<211> 499

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<400> 22376

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<210> 22377

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-E10

<400> 22377

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 <211> 481
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-E1-E11

<400> 22378

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<210> 22379
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-E12

<400> 22379

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<210> 22380
 <211> 518

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-E2

 <400> 22380

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<210> 22381
 <211> 492
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-E3

 <400> 22381

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 aggcgctatt ggtaagaaaa agccgcgaat ctgtacggcc cctctacgtt aacgcggttt 360
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<210> 22382
 <211> 506
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-D2

 <400> 22382

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 gctacgtccg ctacactacg gtatacga gttgttataa cgcgcgaaacc catctgctag 480
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<210> 22383
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-C1

 <400> 22383

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 tgcagtgttc ggcacgagtt ctgaggagaa gtaacgggtca gcttatgggg totacatcct 180
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<210> 22384
 <211> 495
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3066-032-Q1-E1-C10

<400> 22384

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agagaaggtc caaggacccc agtcaaggaa caaacgctcg gtatcagtac acagcactca 180
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gaagcgctga cccgctcgcg agagcgagat tatacgaagt cagagagaga agacgttaac 300
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ccacgtagat ccggtcaaca agtcacctag agtcagtttc ntaaccgcg caagatagcg 420
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cacgtcgtcc atgac 495

<210> 22385

<211> 301

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-C11

<400> 22385

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catagactcg ctgactctc cggttcctga tctagactca catgcggaga cgcgtagggc 180
gcactcatat acttcgtcga agaatacctgc ccgcaaggcc gagatcatcc catgggctag 240
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<210> 22386

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-C2

<400> 22386

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 gatgtgggtc ctgttccttt cttgtgtgag ggagacctga ggggagagag gcctctattc 180
 ctgtgttcgt ggccgtccgg tgtagagctg ctgtagacgg attggcatta gagggcggag 240
 aagttgtggg aggagctttt cactggtggt aatgagactt gtactatggt gtacggttgg 300
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 gctactaagg ttacgggaag ggtgactaat aagatagccg ttactgcgga gtcctccaag 420
 agaaggaccg tcggctctta ctagaacatt ctaccgaac ttaccgacac aatagatatc 480
 cgggagt 487

<210> 22387
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-C3

<400> 22387

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 cctgatgacc ttagatcgtg ttgacgttaa ttcggaattc gtatgcagtc tcattgcggg 180
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 cttcgtccct gatggcacga aaataacggg gacgcgtcga ataactaact ctacttttag 360
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 acagtct 427

<210> 22388
 <211> 498
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-C4

<400> 22388

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 taggggatgt atgggtaggt agttacgaat ggtactaatt ttaatgggtgg gccttcgctg 180
 catgggaata cggagagtca tgtgacgcgg gcggtgattg gtgcggtgct ggttcctcct 240
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 gaggaggagg attctgagga ggtttgttgt cttcctcttt gtttgacttt cgagcatcat 360
 catgattggc ttgggtcttct tgttcctgct gttaagacgc gattcgattg aattgtgttc 420
 cttcttgctt aagaaacgtg cggcgacatg acttgccctc ggactcacca cgcgtctccg 480
 tccgacctgc cgagctct 498

<210> 22389
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-C5
 <400> 22389

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 taaaccctaa ggttcgaccg aggcggaaac aaacatccga aggttagact cgccttcac 180
 gcagtcgctc cttttctgct caggggtgga gggagtcctc agccaggaac gtcggaccag 240
 cccgagaagc cgtagatcgc cagaacgtct aacgttcagc ctgagctgtg agtgggtgtc 300
 tcagaggact taagtccatg catgtgcgta cgtgatgcta cagtctctc acagcgtat 360
 tcaaacctaa cctatcggtt gctgccccat aatgctgcga tcgggaaaat ttcggtgcca 420
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<210> 22390
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-C6
 <400> 22390

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gttggttagtg ttgggcgtgg taatgatgtt aagagagttg ttgcgccttg gagttatgag 180
agtggctctg gaagtagtct tagtaatcct cttcctgttc ctttaacatc ggtggagatg 240
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<210> 22391
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-032-Q1-E1-C7
<400> 22391

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<210> 22392
<211> 507
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 22392

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aaaagtgcga ctagtctggc gttaataaaa ttctaataat taagccctac gctcgactct 180
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 agctcgatca tagcttaggg ctggaagaaa gagcctagtc acaataagac ttctaaggac 360
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 acctagtctt aaggcgacta gtgtangaac gccgtcatcc cttcagccta agtcgggaac 480
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<210> 22393

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-C9

<400> 22393

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 tccacgaaga aggaacctaa acgccgaagg aagttggaat agaaactgag ttcacgggcg 180
 attctaacat tgaagtcgag aaaaaatccg gctgggtccgc tagggaaaag cacgatatag 240
 acccccctac ttgcactgg cacttcccgg tcgcatgctt gcctcatatt acgttccgcc 300
 acgataattt agtgcattt aacctccccg acgctcctac ctgaggtgag gagacaacac 360
 tcggagtata aaggacatat atcttcgagt cgtcgggtta atgtgtgata gaacgcggaa 420
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<210> 22394

<211> 172

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-D1

<400> 22394

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tccaccccca aggaccactt aaacacacga catatacgga ccaacctcac gg 172

<210> 22395
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-D10

<400> 22395

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tcgataatgc ggcgaatgct atgaaagggg agtacgcaag aggaccagga tcgaatcctg 180
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gaacatgtta cacgtcgcgg attaggtcgc gtcgagagaa tacgctaagt ccactcatgc 300
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<210> 22396
<211> 490
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-D11

<400> 22396

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agtagccaaa cccatcttca ccactcctcg ggacagacct ggtatattac cttttccttt 240
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tagattctcg aaggacgcta caatctccct acacgagact acctataaaa aaggacttcg 420
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<210> 22397
 <211> 483
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-B9

<400> 22397

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 aaccgttcct gacctacttg gtgtggtggg tcacggattc gtagtagtaa gtcaaccaag 420
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<210> 22398
 <211> 328
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-A3

<400> 22398

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 cgtatggccg acggagttgc actgcacgct actgctagat attagcgagt cattaaaact 240
 acggggaagg agatcgtcta gcggattatt ctctgactcg tgattgtccc cggttgaatc 300
 ggctgtgtcg acgagcgtat acgtgctc 328

<210> 22399
 <211> 514

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-A4
 <400> 22399

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 aattgtgggt ggtgttgctg ctagtaatgt gtttgcgtga tctgttagtg ttgtggtgtg 480
 tgctcgtgtt gctgctgtgg ctgttggtgg agtt 514

<210> 22400
 <211> 505
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-032-Q1-E1-A5
 <400> 22400

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 aatctctctc tctctccact ctctcctaag acctttttac cccccgcgcg ccgctttttt 240
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<210> 22401
 <211> 503
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-A6

 <400> 22401

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<210> 22402
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-A7

 <400> 22402

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<210> 22403
 <211> 416

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-A8

 <400> 22403

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 cgcactatcg tgggattgga ggaaggaata tgtgtgtagg tggtttcgta gatggaggag 360
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<210> 22404
 <211> 230
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-B1

 <400> 22404

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 attactaatt tcaatacacc aagggatcga ttcaacctat attttgaaac caattggccg 180
 gaaggaactg cctacctttt gggttaagct gtaatttagt accccttgga 230

<210> 22405
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-032-Q1-E1-B10

 <400> 22405

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<210> 22406
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-B11

<400> 22406

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 <211> 501
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-032-Q1-E1-B2

<400> 22407

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<210> 22408
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-B3

<400> 22408

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aaaatacaaa tagatataaa aatgggatat acggataaat atacgggata gatctacgga 120
atgtatatta aatgtacgga accgtctctg atgtttgacc gacttgagtg acgcgagaga 180
cctgcagatt acgttttact ttagttatta ccgacctttg ttgcgcgggt taatcgggta 240
tcgcaggacg gtccccgtgt cctattggct aatcgggact acgttttagag ttttcgggac 300
gacattagcc ccctcggtag aacgga 326

<210> 22409
<211> 503
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-B4

<400> 22409

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cggagcgagg actggtgacg ctgatgtct ttaggtgttt tccttgaggt tgtggtgttt 180
tgtttttcgg tattggatcat gcctgttggt gttttgtttt cgtttttaggt tttgttgatc 240
gtgttaagat ttcgtgtaag tttgctccta ttattgctga ttagtcgtgt ttttagatgt 300
atggctatat ttctattgct tgtgctactc ttgtttgtat tgcttctgat aagtttccta 360
tgtatactgg ttgtatttgt gctgtagagc gttctgctgg agatagtatt ggtattgctt 420

ctgctattgc ttgtaatgaa taggccgatt cctcgaagtt agacataata gcgactcctt 480
gtaatgtcaa gaccgatacg cct 503

<210> 22410
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-B5

<400> 22410

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gtaggctgtt tctgtacctc ttgttggtac tctgggtcctt gattctgatt ccgttcctta 180
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taatgtttga gttgctgcta atgtttgtgc tgctgtgtat gatgtttctc ctgtttgtga 420
ttctgtcgtt acttttgagg aatagcggga ttatgatggt gatcatcctg agtgttttgc 480
tgagctt 487

<210> 22411
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-B6

<400> 22411

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gttgtgtagt gcgggggggtt gggacatgac gagggagtct gtcagcgatg tagtcactg 120
tgcggcgctg tcccggtggg gttgaactgc tatgttgttg ctcaatcggg atgtctcggg 180
gtcattgaga ttgtttcggc gctgcgctac cgtagtagaa tgtgtgg 227

<210> 22412
<211> 505
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-B8

<400> 22412

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ggtcagcccc ggcccggcgt acttctgcac gcgtccccgt aggaagaccc ctgcaggggg 120

cgcagtccgg gagataatcg aagaaatacc tataaagtac ccctagaagc acggagtcac 180

aatcgacctc gcgactacga aggataagta catcaggacg ttctgtggac ccggacccgc 240

catacccctt gacttactcg cgtccgatag ggctcagag gacgaatacg ctacagacgg 300

aagaatagcc gaagctaaaa ggatcgctt aaaagaggaa acgctactga aagatggctt 360

caagataaaa aagactcccg cgggcggcac cttattactc tccattgaag acaaaccaa 420

ggagtacctt ctactgcacg ggaaggcggc cgagtactag accacgtccg attacagtat 480

cggatgtcta tgcggtcccg gaccc 505

<210> 22413

<211> 504

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-A2

<400> 22413

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aaggctgatg gttgtgcgtg gcggaaggct gtagtcgga ctcttggtta tcattattct 240

cctgctatcc gttttgtgcc ttctgctatt gttggtggta atggtgtttt tgggtgcctt 300

gggcctaggc cttagattat tatgcatcgt tatgctgagg cccaaccagg agtgagagga 360

agtagagatt acggtcattc tctcagtcgt cgtcttcggt gccgttcggc gcggcaacaa 420

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cgacgtggga cgcaaaggag gggc 504

<210> 22414

<211> 236
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-G5

 <400> 22414

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 cgtgttccgg ctcaagtaca cggtcgacta ggcgagcacg atcatgtaca cgaagatgtc 120
 cgtgtagtgc gccaaactgt gaacgcttgt acaggaggac cttaactacc agttcatcaa 180
 cgtcatcctc aaccagatgg acttcaacgc gactgtcaac cggaacgtca ataacg 236

<210> 22415
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-G6

 <400> 22415

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 ctcgcaacca tggcgggcgc agcaggcgga ggcgcggtgc gtgctctgtc ccagaaggag 180
 caggacatac agatgatgct cgccgccgac gtccaccttg gcaccaagaa ctgcgatttc 240
 cagacggagc gctatgtctt taagcgccgt tccgacggca tctacatcat caatcttggc 300
 aagacatggg ataaactcca gcttgacgcg agggttatcg ttgccatcga gaaccgcgag 360
 gacatcatcg tccagtctgc ccgccatat ggccagcggt ctgtcctcaa gttcgctcag 420
 tacactggcg cccatgccat cgc 443

<210> 22416
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-G7

 <400> 22416

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ggccacccgt tgcagacat ggccgcctc ggccgcggcg ccgtgttggc gtccttagtg 120
gcggtcgcg cggtggccgc gttcctcgcg gtgccggcct cggcgaagtc cggggagctg 180
agcgcgatgg ggttgctggc ggcgaagggc ggcagcgcg cggggccgca gaagtgctcg 240
ggcgctgtgg gcgagtgcga cgtggacgag gcg 273

<210> 22417
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-G8

<400> 22417

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ctggcagcag cgcaagctca tggccgactc cgcggctgaa gccacgtaca agcatgacct 120
ggtcgaggtc gccaaccaac ttaaccgtgc agtccacaga tccgtcgaga aggaggacat 180
tggcacgagg cgggagatga tggggacgac gactaggaag tctaagttca gcggggcgtg 240
cagggcgacg aacccgatcg accggcgctg gcagtgccgg caggactgcg cgacggaccg 300
gaagcgcttg gcgcggtgcg ccaaggcggt ctggcgcaac atcacc 346

<210> 22418
<211> 271
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-G9

<400> 22418

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agaaaaaagt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa 120
aaaaaatgaa aaaaaaata aaaaagaaca gcctttttta aggactaaat ttaatgaaat 180
tttcattcaa aggacataat attaatttag ggccgcctaa attcaattaa gttacctaga 240
ttaaaaaact ctttcattgt aaataatctg g 271

<210> 22419
<211> 387
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-H10

<400> 22419

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acaggagaag cccactgtcc gcacagaatc cgatgaataa agctctggtg ccatagtggc 120

atagtccttg ctacagatga tttgaagtgt tggtgcaagt ttccggaaca tgctatttag 180

ctggcttgat tttatagtca atgctgaata ataaatactt tttacgacaa ttgtcttttt 240

cgttgctaata tgcactcgcc ctacctgaat cagtcagtgt aacatcatgg aatgcttcag 300

ttttgtacaa actaaatttg gtgtgctgtc cgacagattc tatgtctggg ccttaaaaat 360

aaaagaataa tgaatggaat ggtttttg 387

<210> 22420

<211> 322

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-K1-H11

<400> 22420

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cgactagata gccagcgacg atcgagccgc gcgcgggtgg acgcgcacat acacgcggta 120

gcttccttct caagcctagc tagcccatc ctgcgcgcag gcggcggcag cgagaattga 180

cgtgcgacga cgagcttgtg cttgctagct agagagcgag gatgtcgagc cggaggccgt 240

cgtcgcgtgg caacatctnc gaagacgaga tcaacgagct caatctccag cttgaaggcc 300

ttggtcccag cttccggcgg cg 322

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<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-H12

<400> 22421

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cgcggttctcc tctctctctc tctcgcgtcg gccgccgcgg ttgccgccgc cgtcgacgcg 120
gaggacccgc tgatccggca ggtgggtccc ggtggagatg acaacgatct ggagctgaac 180
gcggagtcctc acttcttgag cttcgtgcag cggttcggca agtcctacaa ggacgccgac 240
gagcacgcgt accggctgtc cgttttcaag gccaacctgc gccgcgcgcg ccg 293

<210> 22422
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-H2

<400> 22422

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tctccgcctg ctgcttctgg ttggtgttgc gcaggcggta gtggagttag tgcttgcctga 180
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gtgcgcgacc ccggtgagcg tggaggaggc gtgccgcggc gcgtccgaga cgcacgccgg 300
cgtggcctac gaccactgca tggcgtcgct gggcgccgac ccgcgcagca aggaagccgg 360
caacaagaac atgcacg 377

<210> 22423
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-H3

<400> 22423

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gcggcgccag caccacacgc cgccggcgtc gacgccacc cccctcccga caggcacgct 180
tcttgccctt cttgtgggat gctactacgg ataacgtacg cccaaccac gccttcggcg 240
gcggcccagt tgaggctccc tgggccgcgt ttacgccgac gccgcgtcgc tgccttcgca 300
gcggacggcg ccggcaattc 320

<210> 22424
 <211> 290
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-H5

 <400> 22424

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 ctggtggggtt cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180
 cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240
 tcatacccaa gggcgacttc cttgtcggac aactcaactt cacaagccct 290

<210> 22425
 <211> 280
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-H6

 <400> 22425

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 accagccttc ttctttcttct gcttggtcgt ctgatctcgt tttccattcg tgtccaatcc 180
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 tggcgggccgc accggcgggc ccacgcgcgc cgcgtcgtcg 280

<210> 22426
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-H7

 <400> 22426

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 ggctatataa gtgtccagct gttgcatctt aagttcgtcg ttagtttcgc catcagcgtc 120

tagccaaaag catcgtcgtg gtgaaaaagg gagtcgggga ggtagtgaat tacgtcgtcg 180
tcggtgatct gcgtcgggtgc cagattgtcg tgctcgggtgt ttggctgata ggggtcacca 240
tcgtccgcgg aagccgttca tggctgtggt tggagtcaag tgcctatgt 289

<210> 22427
<211> 287
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-K1-H8

<400> 22427

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ttccccgacg ggacgtcccc gctgggtggcg ccggcgctgg tgtacgccag cgctgccagg 180
atggcggacg ccgacgtggg gagccccaac ttcaacctga cgtggaaggt ggacgtggac 240
ccgtccttca gctacctggt ccgncctctt ttcgccgaca tcgtgag 287

<210> 22428
<211> 229
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-H9

<400> 22428

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ggccgctcgtc tcccagtcaa ctttgggttg ctggaccgtt gtctccttat aatgtaatta 120
tttattttatt ttgtatagaa ctctgctat gaagtaaaga tgtgacattc gatccaaaaa 180
aaaaaaaaata ataaaaaaaa aaaaatatac taaatatatta atatgtttt 229

<210> 22429
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-A1

<400> 22429

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ctgttccatt ttgtgctact tatgtgaacc gacctgacca cttctggacc ccttttgccc 240

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<210> 22430

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-A10

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tcgcattagg tgtctgttgc tgtgcttacg cgttcgtagg aggatgtcgt tagttggttg 180

gggactagtg atgctgctgt ggtgtctctt cttctgttg atttgtaaca tcatttcttt 240

ggaggtatgg aagtcgaata taagagtatg tacagtggga tagataacga cagtagcttc 300

ttcaggattg aaacggctag ggtagatgat gatacgaagt acagacgatt gcagaggggg 360

agtcaaccaa tgggaaatac ggtaaaggga ggaccgtag agtcgctcgc tcgtctctcc 420

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<210> 22431

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-032-Q1-E1-A11

<400> 22431

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ggcagaggac acgacgttcc ggcgggcaaa cgcactaaaa ccagactcgg tttccacaag 180

ggacattgcg gttgcgccaa agaggcgatc ggcgatatctg catgcgcaga gtccgacctt 240

ccgacgaaga ccgctatagc caaaagagac gacaccgtcg atatattcat agctgtgatg 300

ttaccttgcg aattctgcc actaccgggt ggcgaaatat taacgtattt gctctgaata 360

ttatactacg tccactagat cttaacgtgg ggatttcgga ataataataa actacgacgg 420

aac 423

<210> 22432

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-G4

<400> 22432

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ggatctaaaa cactggagtc aagatccaac atcgtccatg ttcaaacaac taggccttac 180

ccatcacctt aggggggtcc acattattcg acttgctgca cgggtcctat tcagttgatc 240

accatacacg cctgcatagc gggtcacgcy actcactagc gcggggccca tgcgcccaca 300

acttattacg actcgtcacc aaccaaccaa accaagccac ccagcacgtg cactccaagc 360

gtgtgagctg tgctctgctc tacc 384

<210> 22433

<211> 378

<212> DNA

<213> Zea mays

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<400> 22433

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taatggaagc atatgtctcg acattcttaa ggagcaatgg agccctgctt tgacaatctc 360
taaggttttg ctttctat 378

<210> 22434
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-E8

<400> 22434

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<210> 22435
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-E9

<400> 22435

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atcgacatga agtactgccc caacaagttg tgtactgcca acggcgctc caaggtcacc 180
gtcaaggatg tcaccttcaa gaacatcacc ggcacctcct gcaccccgga ggccgttagc 240
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tatagcggca ccaacaacaa gaccatggct atatgcacca acgccaaagg cagcaccaaa 360
gggtgcgcta aggggcttgc atgcttctag acccttcacg gactgacca tctctttagg 420
tataattttt ctc 433

<210> 22436
<211> 414
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-K1-F1

<400> 22436

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gctacggcgt tcagagaccc cctgggtctaa gtctaacaac agcccagacg aaattcacgt 180
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gacccgtcac cgtctttcac ccgtcagctc ctcccggtcc gtatccagcg agcaattctg 300
gcggtcctgg cagcagcgac gcgggtgttg agatcgagag cgtgaggtgg agcgtggtgg 360
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<210> 22437

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-K1-F10

<400> 22437

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tggaacgggtg cgctgcggcg ctccgaagga agacgacggc gacgtgttgg gccgtcggcc 120
cgacgtgcgc ctntcctccc ggtggcctgg acgcggggcg gaacggccgc cgcggcaacc 180
gcgccgacgt cgacgtcggc ctctcctgt cgtggctcga cgcctcgccg gcggcgctccg 240
tgctgtacgt cagcttcggc agcctcgcg agctgtcgct gaagcagacc gtcgagctct 300
gccccggcct tgnagggttc cggccggccg ttcgtc 336

<210> 22438

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-K1-F12

<400> 22438

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ggaccttccc tagcggcggc gcctaccaac ctcaaggagc gatggctctg tctgcgacgc 120
tacggatttc tcttagcgtc gcgttctttg gggttctggc gttcgtgctt ggtgtcatcg 180
ccgaaaacaa aaagcctgct tccgggactc ctatcctagg aaaggatgtc gtcattctgca 240
cgtttccaag tgatccgact cttgcgatgg ggagcctgtc cattgtggca cttgtggtag 300
ctgccatcgt angccatgtt gccatcttct ttccatactt gngcaaagtc agttcctcgt 360
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<210> 22439
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-K1-F2

<400> 22439
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gatggactcc atcgccgacc tgggactgga ggtcaccaac gtcaacgtca cctcccacga 120
gagcctcgtc ctcaacgtct tccgcgcgcg caggcgggac aatgaggtgg cagtgcaggc 180
ggacagactg agggactcgc tgctggaggt gatgcgggag ccgtacggcg tatggctcgc 240
gtcggcgccg cccgtgggga tgagcggcag cggcatcgcc gacgtgaagc atgacagcgt 300
ggacatgaag ctcgatggca tcatcgacgg gcaggcggca ccgagcgctg cagtgggggt 360
ttcagaggat cactacggcg gctacaacca tctnctcaa tacctcgctt gatcattatt 420
taattgcgtt cggtcatgtt gaaagttcga tcaaact 457

<210> 22440
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-F3

<400> 22440
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aggggactgt ataaaataca tacagacaat aaaagtcgg cgctgtcgct ctttacacct. 120
cacgtttacc tacatctgat tccaacgctt taccctttct ctaccttaac ctaattcaat 180
tttactatcc cgacaattac aacactttgc atattcttaa cctttc 226

<210> 22441
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-F4

<400> 22441

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tagatgtact ggaggcatgc aaattctata atgttttgag aggtcaaatt ttacatattg 120
agttgtggac ttggacatct gacaaaaaag agtgaggaaa gaagtgcgct tcagttatta 180
acttgtagt atggctggac atctctcttg agtggatgca cctaatacac tgcaaaatat 240
gtttttaaca aaaagtttgt ttgacctgt cctgacccat gaccttacat attgccgttc 300
aagtaatccc agcaacaggt ttaacaaccg tgggtggttc caagctgggc gaagccgtgg 360
ccagttccag agctggggga gaggccgtgg tcagttccag agccggggga gaggccgtgc 420
ccagttccaa ggacgaagga gaggc 445

<210> 22442
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-F9

<400> 22442

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gaggaagggg tcccttctcc ttggttgctg tgcgcctccc tcctgtctgc gtgcgtgcaa 120
tcgacgcaga ggcgcgggag ctgcaccac cacaaccacg acccgatggc tttcatgogc 180
tcccgtcaa atgcatcttc tggcatggga gttgctccta acattaggga gacattogtc 240
gagcttcaaa tgaagaaggc atttccgata tggtatcttc aaaatcgaag agaaagcaaa 300
gcaggtggtt gtggaaaaaa caagggtac tactgaaagc ctttatgaat ttttgggcct 360

ttttccagag aatgacttgc gatacgcgct ggattgattt gaattttgta ctggggaaaa 420

<210> 22443
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-G1

<400> 22443

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cgggtgattc gaattgcaat ggtggactaa tgacgacggc attcaattat ctgcagaagc 120
tctacgcctt gagagtgaga aggattaccc ttacactggg agtgatgaca tatgcaagtt 180
tgacaagtc atgaatgctg cttcacttca gaactcctgc gttgcgtctg ttgactaggc 240
tcaaactact gctaacctga tcaaacatgg gccataggca ataggcatca atgctgtcta 300
catgcaaaca tacatt 316

<210> 22444
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-G10

<400> 22444

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gaagaggatg agcgcgtcca ggttcataaa gtgcgtcacg gtcggggacg gcgccgtcgg 180
caagacctgc atgctcatct cctacacctc caacaccttc cccaccgact atgttccgac 240
agtgtttgat aacttcagtg ccaacgttgt ggttgatggg aacactgtca acctcggcct 300
ctgggacact gcaagtcaag aagattacaa cagactggga accctgagct atcgtggagc 360
tgatgttttt cttctggctt tctcactgat 390

<210> 22445
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-G11

<400> 22445

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gacagtggag gtgaacccgc cgaagctgac tttcaaggcg ctggaagagg tcctgaacta 120
ctctgtcaca atcaagtcgg ccaacggcca ggcgcttacc ggccctgtcg agggggagct 180
caagtggttg tccggcaagt acgtcgtgcg cagcccgatc ctcgtcacta acgaatccgg 240
ggcctcgccg gcggagacac gtaaaccgta accctcgata gcagctggca aatgcctact 300
tattacgtac atggtaacga ttagtttgcc atatgagcca gcgcttgaaa tcgatgggat 360
tgtgagcttc attcactttt g 381

<210> 22446

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-G12

<400> 22446

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gagtacgttt ctgaatcata gcttggcgat gcctgaggct agacaaatac tgagctagcc 120
ttcagaaaaa aaaagaatag aaagagattg agaagcaggg agaaaaaatg gcactggccc 180
attgaggaag cttgagaacc agttaacaag aattgccaac atattcttgg acaatcttgt 240
taacagagtt ttaaggtttc ccagcagaga agagcgcgtg caaccaccac attcatataa 300
ttaataagca aggttttagag aagatgcaac atgggcacaa agatgaaaaa agggatcctg 360
aaaccgttcc gctatatctc aaccatcatg gatggtaaag acgcttgaat gcaaaatgg 419

<210> 22447

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-E6

<400> 22447

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gtggaacacg ccaaaaaacct cgcgttccac aaggttgata tccgtgacaa agatggattg 120
gaaaaggttt ttgcttcaac aagatttgat gctgttattc attttgctgg actgaaagct 180
gttgagagaaa gtgtacaaaa gcctttgctt tattatgacc ataatggtgt tggcacaata 240
aatcttctgg aagtaatggc agctcatgga tgtaagaagt tagtggtctc atcatcagct 300
gcagtttatg ggtcacctaa gaactcacc tgcactgaag attttctct cactccacat 360
aaccatattg gcagaaccaa acttatggca gaggagatat gccgtgatat ctaccattca 420
gatcctgaat ggaatatcat tttgcttagg tactttaatc cagttggggc 470

<210> 22448
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-K1-D1

<400> 22448
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gtgacgactg catctgcac ggccccggga cctccaaggt gaacatcacc ggcgtgacct 120
gcggccctgg ccacggcatc agcatcggca gcctagggcg gtacaaggac gagaaggacg 180
tcacggacat caacgtcaag gattgcactc ttaagaagac gatgttcggc gtccgcatca 240
aggcgtaga ggacgccgcc tncgtgctca ccgtctacaa gatccactac gagaatatca 300
agatggagga ctcagccaac cccatcttca tcgacatgaa gtactgcccc aacaagttgt 360
gtac 364

<210> 22449
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-K1-D11

<400> 22449
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gcatggaagt agcaatggca cctgaatcag ctacaaacca tgatccaatc ctagcggcta 120

gcgatctcta gtttatatta caattaggag caagcgatcc aattatcgat agagcgcgag 180
atcgatcgat catgccgggc cgctcgggtg tctccatcct cctcctcctc ctccatggcc 240
tctctgcct gcagctggct gccttgccg agatggacga cgacgacgtc atggaagacg 300
gcagctgcat gcatttcagt gtgtccccgc cgnctgctcc ggcgaggac gcggtgagc 360
ggcgcgacta tttccgcgcc atgcaagcca aagatctgtt ccggcacgag cagatgatca 420
cgatg 425

<210> 22450
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-D2

<400> 22450

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gcgtcggcgt cgccatcgcc ggccatgggt tgcggtgggt ccaaggaggc cgtggccacc 120
ggcaacacca gcgcggcgag caaggctctc cgagggaagt cctcctccgt ctccaccggc 180
gcaagccaca cctccaccac gtgcgcgtcg tctcggcg tgcgtctcaa ggacgtcgtg 240
aaggatgcgg cggcgggcgg cgaggtgatg acgcccgcgg acgcccagaa gcctatctct 300
gtcgacccca aagcagacgc catcgtggtg atggacgcca agaaagagga gggcaacaac 360
aagggtggcg tggaggaaga tct 383

<210> 22451
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-K1-D3

<400> 22451

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tgatggcgcg cgcgtgtgtg ttcctcgtgg tgctcctnct ggccgcccgtc gcggtggcgc 120
cgtttgcgag ggctgcgcgt gtggatgtcg tggagggcag gtccatggcg tccgccgacg 180
cgctgatgc ggcggtgac ggcggcgctc acggtcccga ctccgctca tccgcggact 240

cgccgtcaga ggcgcctcc agcagcagct catccgacta gccgcgcaca acgcagttct 300
 tgtcatgata tatctagcag ataaaaagat catatgtctc gtttgattct ctggaataac 360
 taatagtata tatgtgcgc cctgatgata tataaatatg tgcatacanat gcgtgcggca 420
 aacgcatgga atgtg 435

<210> 22452
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-D4

<400> 22452

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 agtccacgt caggaacgtc aagttcgtgt cggacaagac ggtgaagccg gtgtacatta 120
 tcacccccac cgaggccgcg cacatccagg ccaccgtggc gtgcggggcg aagcacgggc 180
 tgcggggtccg cgtgcggagc ggcggggcacg actacgaggg cctgtcgtac cgggtccgcca 240
 agccggagac gttcgccgtg gtggacctgt ccatgatgcg gcaggtgcgc atcgacggca 300
 aggccgccac ggcgtgggtg gactccggcg cgcagctcgg cgagctctac tacgccgtgg 360
 cgaagatgac cccagcctt cggttcccgg cgggcgtgtg cgccacgata ggcgtcgggg 420
 gccacttcaa cgggggc 437

<210> 22453
 <211> 180
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-D5

<400> 22453

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 catgtgtgac cgtgcaaaga tgtcgtggca cgcgtacttg gacgagcacc ctgatgtgcc 120
 agatccaggg gcaccacctc tcggcggcgg gcacgcgtagg tcacaaccgt gccgcctggg 180

<210> 22454
 <211> 465

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-D6

 <400> 22454

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 ggcgacctca gatagatttt taatggaggc gccagcagcg ccacctccgt cgtacgacgg 120
 cggcgggcggc tacgtcctcg tcgacctgtc cctgacgctg ggccccgaccg cgacgccaca 180
 ccctgccgcc tcctcctctc ctgagcctga ccacacacca gccgccgccg ccgccggttc 240
 cagttccgcc ggcgtgcggc tgttcccgtg cctcttctgc aacaagaagt tcctcaagtc 300
 gcaagcgctc ggcggccacc agaacgcgca caagaaggag aggagcgtagg ggtggaacgc 360
 ccacctctac ctcccgcgcg cgcccgcgga cacggcgctcg gcgtcggtcg ccggcgccga 420
 cgtcgtctgt gccgcgacga cgcccgtcgg cagcagccac gcgct 465

<210> 22455
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-D7

 <400> 22455

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 gtctgaccgg gcaaagatgt cgtggcaggc gtacgtggac gagcacctga tgtgcgagat 120
 cgagggccac cacctcgcgg cgggcgccat cgtcggccac gacggtgccg cctgggcgca 180
 gagcacggcg ttgcccagat tcaagaccga ggacatggcc aacatcatga aggacttcga 240
 cgagccaggg cacctcgcgc cgacaggcct gttactcgga cctaccaagt acatggtcac 300
 ccaaggcgag cctggtgccg tcatccgtgg caagaaggga tcaggatgca tcaccgtgaa 360
 gaagacaggg caggcactcg tcgttggcat ctacgacgag ccgatga 407

<210> 22456
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-D8

<400> 22456

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aaggagctga tggcggcgct gtacctgcaa gtgagcatca tcagccaggc gctcatcttc 180

gtgacccggt cccggagctg gtccttcgtg gagcggcccg gcgcgctgct ggtgatcgcc 240

ttcctggcgg cgcagctggt ggcgacgtgc atcgccgtgt acgccaactg ggagttctgc 300

aagatgcagg gcatcggtcg gggctggggg ggcgccatct gggcgttcag cgtcgtcacc 360

tacttccgcg tggacgtgct caagttcgcc atccgctacg cgctctccgg caaggcctgg 420

aacaacatca acaac 435

<210> 22457

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-D9

<400> 22457

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gggacgcggg gttccttgga ccactatata caggagcgac gaagtgatcc acccgccagc 120

catggagatg aagaatgtcc tctgcgcgcg cctcgtcgcc gccgcctctg ccaccgccgt 180

gctggcctcg gtgcgctccg aggcgccttc cgaggcggcc gccggcgcg gacggtggtgc 240

ggctggccct agcgcaagcg gcgccgacga cgccgacgtg cccgcgctcg gggcgctcgt 300

cgctgcttc ctcgcctact accttcactg aacgacgaca cgcggtgcgg gaaacctttg 360

gatgcatcga gtttggttca tt 382

<210> 22458

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-E1

<400> 22458

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gctcgcggtc tgcgatggca cgagctgcag aaaaccgatt aaaaaaacca aaaaacacac 120
 ccgtaaagta attaaaccaa acacgcgctg ccaccgaccg atcaggcgac cccgctccaa 180
 gaggaaatcc accaccgcgg ccgggggcctc ccagatctcg ctggaggcag cggcagcggc 240
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<210> 22459
 <211> 300
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-031-Q1-K1-E10

<400> 22459

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 ccagatcgcg caggagaagg ccggcatcgt gcccatctcc tatcgaggg tggcatgcgc 180
 aaagcagggc ggcatccgt acaccatcac cggaacaag tacttcaaca tggtagcat 240
 caccaacgtg ggcggcgccg gcgacatcgc ggcggtgtcg gtgaagggga gcaagcgct 300

<210> 22460
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-E11

<400> 22460

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 ttcgtaggat gtgggcacgg gaccaagatg aacaaggcgt tcacgctcga gaagcccatg 180
 gacctgaaaa agggcgtgaa ccacgtcgcc gtcttggcgt cgacgatggg aatgatggac 240
 agtggcgctt acctggagca ccgtctggcc ggcgctgaca gggtagcat caagggcctc 300
 aacgcgggca cgctggacct gacgaataac ggcttgggcc acatcgt 347

<210> 22461

<211> 433
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-031-Q1-K1-E2

 <400> 22461

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 tgttcgcggg cgagctgggc cccgaccgcg ggcacatgta catctacagc cggcacttca 180
 acccgacggt gctggcgctg gggcggcaga tggcggcgct ggagggcacg gaggcgggct 240
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 gcggccacgt ggtggcgctc cggatgcctgt acggcgggac acacgcgctg ctggcccggg 360
 tcctgccgcg cgctncggg gtgcgcgcca ccttcgtgga cgccgacgac gaggccgacg 420
 tgcgcgcgcg ggt 433

<210> 22462
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-E4

 <400> 22462

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 ccaaccatt gagctcacc ttaattcacc tctccaacat gacagtcaac accaatatca 180
 aactaccact ccgcatggcg ccaacttaat cccttcacg gaacgccagc taactaccct 240
 acccaccttc accgtcaac ttcaacaccg cgcaccacc catctacgag cccaccacac 300
 ccatgatgtc ctta 314

<210> 22463
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-C9

<400> 22463

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aacacgttat ggtaatatata atacttatct tggaatataa caaagcatga tagatgatct 120

ggagtctgtt ggctatcttc tgctatattt tataagaaga atggccttaa agctggcact 180

aagaaacaaa agtattataa aattagttaa aagaaaatgc ttacctcggc agatattctg 240

tgcaaatctt ac 252

<210> 22464

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-E5

<400> 22464

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cataactcgtt gacaggatgg gtaatgaaat tacaagactt acagctgtca aggcattttc 180

agttattgcg aattcacctc tacgtattga tctctcgtgt gtccctggatc atgttggttc 240

tgagctcaca gctttccttc gcaaggccaa cagagctctt acgcaggcga cgttgggaac 300

tctaaattct atggttgta catatgggtg tcagattggc tcttcttcgt atgagacaat 360

aatcgcgga ctttcaaccc tcataagcga catggatttg catatgaccg ctcttgcat 420

ggaactttgt tgcacaataa tggttgacag aaaatctatt caaaac 466

<210> 22465

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-B3

<400> 22465

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ctgtgaaacg atgtgtgcca accctaaagg aaggcctatc gacagagtta gagctgattg 180

atcaatgctc atctttatatt gtagctagct atcatgcatg cgatgatggc cttcttgatt 240
attattatatt cattcctcat gttgtttgtt cttgcatgtt tttccacca ctaatatgtt 300
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ataaatacaa aggctttctt ttacct 386

<210> 22466
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-B4

<400> 22466

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ccacctgtct ttgatatcaa taccctctc ggcaaccaa ccaaatcgag aaaatgggtt 180
tcaggacacc gatcttccat agcagatgga agctaggtag aggttcttgg accatttgtc 240
cttcacatgc tggctaggaa acgcagatgt tctcagggtc tctgtgttt catcactagg 300
ctttctctt ggaatgtca agataaaggc tgctgtgtcc catgtggcaa ccgttgccgt 360
gatgcgatag ccattgtccc aacgcagtgt gatg 394

<210> 22467
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-B5

<400> 22467

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ctgctccgcc accgtacggg tacaatgtgt cttccccaca accggcgatg tacaactacg 300
cagcacagcc ggtagctgca ccggcgaggc atggcgaggg tatggggatg gggctcggcc 360

taaggctcct aggcggtgcg gtcgggggga tgatgc

396

<210> 22468

<211> 404

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-K1-B6

<400> 22468

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tttggacggg tgtacaaagg gtcctcgag gacaccggag aggttatcgc cgtgaagcag 180

ctgaacaggg acgggctcca gggcaacggc gagttcctcg tcgaggtgct gatgctcagc 240

ctcctgcacc acccgaacct cgtcaagctg ctgggctaca gcaccgactc caaccagcgg 300

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cgagctgaaa gccctgccgt gcacacgcng atgcnatcg cggc 404

<210> 22469

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-B7

<400> 22469

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tccgcggccg tggcggcggc gagggccgat gacgccctgc gccagcggcc gcgggggctc 180

gtgcaggtcc gggagcggga ccagggcccg ctgtcgacgg ggcaccagca cctgcaccac 240

catcaccacc agctgcggcg gtcggcggcg ttcccacccc gccgcccggg gccggggccg 300

ccgcctctc agcgtgcga aagcgacctc aacatcaggg agcaccgctc ctgcagcgag 360

gtggccggcg gcaccgggc gggctgcgcc gctgtgtgct gctgcttccc tgcgtcatgg 420

tg 422

<210> 22470
 <211> 372
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-031-Q1-K1-B8

<400> 22470

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tccaacctgg tgctgtacgg ccgatccag tgcaaggga agtgcaccga gcagaagggc  180
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gcggtgagg tcaccaaggc ctgcaacacc acctgcgcca aggagaagca gcctctgctc  300
agcgagaact gcangaggtc ctgcaccct tcttcttctt gaacgcagag cacngcccgc  360
cgctgctgctc tt                                     372
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<210> 22471
 <211> 390
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 22471

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gagacgcaga tctctgctc ggggctcgc ccagctccct ccacctccg gtgagacgca  180
gatcttggtg cgacggggca ctacggaggc agggtagtgc ggttggtcgt gtggttggtg  240
cctggttcta gcaaccgaga atgttcagag atgaattaga gagagatggc atgcctaaca  300
ttgaaagaac attgcgacaa ggattccaga ctnggttcag aaccatata ctcagaatgc  360
ggaatataaa tcaaggagag gctgatgatg                                     390
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<210> 22472
 <211> 339
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-K1-C1

<400> 22472

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ccggggcccggt cgcgtcgcggt tcncgcgcgc gccggacacc atcccgcggc aagtaatgag 120

ggcccccccggt gccggcgccc gcgtctctcg cccgcnnccg cgcttgccgc gccctgctgc 180

tggcnncgcg acacttcctg nngcggccgg ccctgggtga ccgacnnt cctcccttgg 240

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<210> 22473

<211> 52

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-C12

<400> 22473

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<210> 22474

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-K1-C2

<400> 22474

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cgttgctagt caagtacgtc gacggcgacg gtgacattgt ggcggtggac gtcaaggaaa 120

agggtccga cacgtacgag cccctcaagc actcctgggg cgccatctgg aggaaggaca 180

gcgacaaacc gcttaaggga cccctcaccg tccgcctcac taccgaggga ggcaccaaga 240

ccgtctacga cgatgtcatc cctgccaaact ggaaggccaa caccgnctac accgncaa 300

aattaacttt agtgctgaca atactttaag tcggcctatg ctagctatac tagattgggt 360

tggatcccaa gcaatgcatt acacatgcat gcattggacc gtgatatcta tttgctacca 420
ctaccctatt acgacagtga tg 442

<210> 22475
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-C3

<400> 22475

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aacgggatac gaccacaggc tcacagagac atatttggtg gacaatgagt tcgagaccga 180
gtttgtgatg accaaagagg agttgtacga gcagtcaagg tgtaagcatg agttgcggaa 240
caagaaagct gatcttttgt gaacttacac acacgggtag gtacgacaca aagccctcgc 300
gttgcgcatc gacagctgta gtacagcaat ctcacatgc tcggtatacc gatgcgtgat 360
catcatgagc ttatcacgtg agttggatac tctctatctg cacacgtttt gagcgcctta 420
tatatattac tat 433

<210> 22476
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-C4

<400> 22476

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acctaattggg caccgtgaag cttgtattcc agccggcaga ggagggccag ggcggcgct 180
actacgtgct gcaagaaggc gttcttgacg acgcgtcggc catattcggc ttgcacgttg 240
acccggccct ccccgctcga gtcgtttcgt ccaggccagg gcccttcgcg gcgacgtccg 300
gcccgttcct ggcgacggc accggcaaag gcgggcacgc cgcgatgccc cacg 354

<210> 22477

<211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-C5

 <400> 22477

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 agacggggcg aattcgtggt gctacctaaa agagacccca tctggtgcgg ttctgggggtt 180
 cgaggagcgg cgaggcaggt gggaaatgag ggatgtggtc gtggttgacg aagattgcgt 240
 ccgcgtgctt gggcccggtc cggaggtgcg cgcgtacgaa gaaggatgat gacgacagcg 300
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<210> 22478
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-031-Q1-K1-C6

 <400> 22478

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 aagattataa ggccccaaca ggtatacacc ggcttctggc ttaggcacta taccctcgctc 180
 agagaacgag tgctatcaag ccagagtgcg gaacttggtc aggttgccac ctcaaacgca 240
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 tactcaataa acatcgacca ctnttgctgct tgaaaaagcc acaaattggct tttagcttgg 360
 gtggagttgt aagccttttg gtgtcgagta tataggcaat aatgcagtga gaacaccaca 420
 ccgttacaat gtaaaaactgt ca 442

<210> 22479
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-C7

<400> 22479

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tgacaccatt gacaacgta aggccaagat ccaggacaag gagggcatcc cccagacca 180

gcagcggctc atcttcgctg gcaaacagct tgaggacggg cgcacgcttg ctgactacaa 240

catccagaag gagagcacc tccaccttgt gctccgcctc aggggaggca tgcagatctt 300

tgtgaaaacc ctgaccggca agactatcac cctcgagggt gagtcctctg acaccattga 360

caacgtcaag gccaagatcc aggacaagga gggcatccct tcagaccagc agcggctcat 420

ctttgctggg aagcagcttg aagactggcg cacgcttgcc gactacaaca 470

<210> 22480

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-C8

<400> 22480

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gatcgagcaa ttataatctc acagaataat aaacatcatg gggcaagcct cacggctcgt 120

cctcctcgcc gtcgtggcgc tgctgtccgc cggcctcctc ccgcaggcgc tgggtaaggg 180

taggggaggc aggggacacg gtggcgccgt caaccgcag gtcgccggca tctgctctcg 240

caccccgttc ccggagggtg gcacgtccac cgccggggcg cacgcgtcca agtaccgggt 300

catcgacaac ctggccgtgc tgaacatgca ggtggacgcy ttcgccaagc gcaccgcgca 360

ggcgcgcaag cacgtcgca ggtcggcccc caccatcccc ccgcagcaga cgcaggcgct 420

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<210> 22481

<211> 352

<212> DNA

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<400> 22481

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 ctgcgcgaac agccgcccga catgccaccc cgccctcgca cccacggcat ccgcgcccag 180
 atgttgcggg cggcgcggtc cccgcccgat ccgcgcaaca gccgcccgcac atgccagcct 240
 cggcctcgcg cccacgacat ccgcgcccgg ctgttgcggc cggcgcggtc ctgcgcgacc 300
 cctcagatat aaagtcactc tgggtgttctt caagactacc cgaagcgatt ca 352

<210> 22482
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-H6

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 tagatattta aggataagac ttactgtctg ccttaattag atcctcctcc tcctcgtctt 180
 actgcccgcac tctgccactt accttagcat aacttgactt agttaattga cgctaacgcac 240
 ggtgtcgaat tcg 253

<210> 22483
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-H8

<400> 22483
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 tcgtaatgat tggattaatt atggaaacgg actcggggcg actaagaagg ttgaagttga 180
 tactgagacg catacgtgca tggacaacac tgaatctgac aatacggatg catacacgga 240
 gaacgtgtgg ctatacgcgc gatcgggaata ttaatggatg tagtggatag tgctactctg 300
 ggtgtacatc ttgtcgtctg agagagagac tgattctctt aagtctgata cgtagaatta 360

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376

<210> 22484
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-A1

<400> 22484

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cgagaactag gaaagtgtta agtcttgctg aatcagtatt tactcctttc cagagttcgc 120
ggaagccggt cagggcctcc gactttaata gcaataggcg ttatagtagg acgcacaatg 180
cgttactttg gggatccttt gtgtggctgg ttcagtgatt gagatagatt tggaaagagt 240
ttgttttgcg gaattgttat tcaatactca ctaaggcgtg tcctgttta catg 294

<210> 22485
<211> 205
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-A10

<400> 22485

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aggactgcgc tagctgtcaa cagtcacgga cacaccagct tggcttttgc taacaccaaa 120
ttcatatgat cgttacacgg gaccaagatg aacaaggctg acacgtcaa gaagcccatg 180
gacttgaaca tgtgctgaa cgcac 205

<210> 22486
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-K1-A11

<400> 22486

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tgccacctgg tgtacaagct acatcctctg ggtggcaagg taacgttcaa gcagctgggg 120
catatgctgc cccacccggg gcccttctgc aaagccacgg tgccaatgga catgtgcaga 180
actggaatcc cggcaactca gtctatcccc cagccccagg accaggaaca tatccaggcc 240
agatgtactc atctccctca cagtatgcag cgtcaggggg cttccctaata accccatcca 300
ctgctccgnc acactatgca gcatcagggg gcttccctaa caccac 346

<210> 22487
<211> 213
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-A12

<400> 22487

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ggatctgagg cagcgtattc tgcggctgct ccatgagggc aacggtactg tccaagagca 120
cctggatgga ctgctacatc acgggaagtt aaccatgcag cagcactact tgaggacgta 180
catatggatt gctgatagcc gacgaccgac tca 213

<210> 22488
<211> 477
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-A2

<400> 22488

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catgaatgct gccatggaat tggacctcat tctatcacc ttccaagtgg taaaaaaca 180
acagttagaa gggaacttca agaattccat tcagcattgg aagaagcaaa aagctgatat 240
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agaagctcac ggaaaaggac aagctctgca gtttaactgg ttgtatgaga aaggggcttt 420
tgtgttgcag tctgacggaa aattctcagt tgattttaca atggttgagg atgctgt 477

<210> 22489
 <211> 369
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-031-Q1-K1-A3

<400> 22489

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 caccatgagg gagtgcattc cgatccacat cggccaggcc ggtatccagg tcggaaacgc 180
 gtgctgggag ctgtactgcc tcgagcatgg cattcaggct gatggtcaga tgcccgggtga 240
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 gactggcac 369

<210> 22490
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-031-Q1-K1-A4

<400> 22490

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 tctcgcgcgc cttcttcttc caccaccttc gctgcacggc gcagggccgc gccgaaaaca 180
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 ccctcagcgt gcgcagcaac gcgctctggg ccggcggcgt caacaccacc ggcttcaccg 360
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 tcgtgggaaa c 431

<210> 22491

<211> 137
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-A5

 <400> 22491

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<210> 22492
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-A7

 <400> 22492

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 gctgggagaa actgcggaac cagaggtcaa ggtgctggac ctgaccatcc tgtcacctgg 180
 cagaccggac ctgacccctc cgatcccgtt ccaggctgac gagaagggct atgcgtttgc 240
 cctcaaggac ggcagcccct acagcttccg cttctccttc atcgtctcca acaacatcgt 300
 gtcaggcctc aagtacacca aactgtctg gaaaactgga gtcaaagtgg agaccagaa 360
 gatgatgctg gggacgttca gccccagct agagccctat gtctacgagg gcgaagaaga 420
 gaccaccctt gcttgcatth ttgcgagagg ttcttattct 460

<210> 22493
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-K1-A8

 <400> 22493

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taagcatata gttcgggcat gtgctttctc tgaggacacc caccttttac tcaactggagg 180
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gagttcctgc actgacatgg gtggagtaag gctatgggat gtgagaacag gtaaaattgt 360
ccaaactctt gaaaccaagg cttctattac tagtgcagaa gtaagccagg atggcaggtt 420
catcactaca gcagatggct caagtgtaaa attttgggac gcgaatc 467

<210> 22494
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-A9

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gccgcacgcg ccgatctgcg cccgcccgtc gcacgacggt gatccgcgcc gccgcaggct 180
cctactcgga cgagctcatc tccaccgcca aatctgttgc ttcccctggg cgtgggtattc 240
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acacagaagt gaaccggcag gcttacaagc agcttttgcg gacaactgct ggtcttggtg 360
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agaagtttgg tgactggttg aaggatcaga atatcat 457

<210> 22495
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-B1

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gagcttctgc ctgatccagc ctcatccgcg catggacgaa tctgaggagc acagcaacgg 180

cggcggggcac cccacccgc accacgggta cgagtggaag ttcccggcgg cgctgagcgc 240
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cacggtggcc gtgttcgtgg ggctgtcgct ggcgacaccg gggcagctgc ggagcctggc 360
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<223> Clone ID: LIB3066-031-Q1-K1-B10

<400> 22496

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gtggcggcgg cgagggcccg cgacgcccc cgccaccgtt cgcaggctcc ggtgcaggtc 240
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<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-K1-B11

<400> 22497

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cgtgtggaag aactgggtgt ggcacacgga ggacgacctg ttcatgaacg gcgccatctt 180
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aggaacctac gttacaaggc tcaccgcgtt ctccggcaca ctgtcctgct gcacgggcaa 300
gccgtgctga aggccggtgg gcatcaggct gcttcttcta gctcatggcc tggccatgcc 360
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<210> 22498
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<212> DNA
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<223> Clone ID: LIB3066-031-Q1-E1-H5

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<210> 22499
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-F9

<400> 22499

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<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-G1

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gtg 423

<210> 22501

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-G10

<400> 22501

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<210> 22502

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-G11

<400> 22502

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acgacttagt gtccgaaact gacgggaccg ttagtcctac ctatcccaga cctggcggat 420

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<210> 22503

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 22503

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tgctgacgtg ggtataggcc gtgacggctg cggcgccggc gcctccggcg agtgggtgtac 180

ggcgtggctt ctttaaagct tttttaggta agaatactat ggttattcac ggtaaggatc 240

ggtcggatgt caaagtgata cggcacggta agttgatggg cggttgcttt gatgataatg 300

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gtaatacttt tactcctaag gacggctcgg gccgcgggct tcgtcctgag actaagcgtg 420

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<212> DNA

<213> Zea mays

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<400> 22504

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ccaatgagac cctgatc 437

<210> 22505
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<212> DNA
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<223> Clone ID: LIB3066-031-Q1-E1-G4
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<210> 22506
<211> 133
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-G5
<400> 22506

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tcacgtgagt ata 133

<210> 22507
<211> 407
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-G6

<400> 22507

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gttgatgctt attccggtat taagaatcgt gacccttaga tggagtgtca cgctcccaag 300

tgttgccctg atggtactca tactactaac tccggtaga tacgggacaa atcttagtcc 360

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<210> 22508

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-G7

<400> 22508

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tgtggcgctg gttcgggtga agcttgagga gtcgagtgtg acggtgccgt cgggtggtgaa 240

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<212> DNA

<213> Zea mays

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tgtctacctt atagacttgc tgagaaggaa gataccggta tgaggtgtga gacgacgggtg 240
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c 301

<210> 22510
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-H1
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aaatgagtcc ccatttcccc gccttatatg agaccctcgc ctctgccgag tctactccag 240
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<210> 22511
<211> 345
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-H10
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<211> 336

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-E1-H12

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 tggtgctact cttgtgtggc gttcccgtgt tgttgcgacc catacttagt actacgttcg 240
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 <213> Zea mays

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 <211> 380
 <212> DNA
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 <223> Clone ID: LIB3066-031-Q1-E1-H3

 <400> 22514

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<210> 22515
 <211> 452
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 <211> 483
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 <213> Zea mays
 <223> unsure at all n locations
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<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-E3

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<212> DNA
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<223> Clone ID: LIB3066-031-Q1-E1-E5

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<210> 22519

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-E6

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<210> 22520

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-E7

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<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-E8

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<212> DNA
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<223> Clone ID: LIB3066-031-Q1-E1-E9

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 <223> unsure at all n locations
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<210> 22524
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-031-Q1-E1-F10

 <400> 22524

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gtgtagtcgc tgtcgaagta gattgctgag tctgtttggg gttctgaggt gcttgggtgg 360
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<210> 22525
 <211> 61
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-F11

<400> 22525

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<210> 22526
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-F12

<400> 22526

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 agtgctatgg ctccccgggt ctcggtgctg gagtccggcg atacttctga aaataaaaag 180
 ttcgtctctg ggatcatcac ttcaggaaag gacgcttata ctcgatgcc ctttaagagac 240
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<210> 22527
 <211> 494
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-031-Q1-E1-F2

<400> 22527

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aggctattaa tgctaattgct attctttatg agagttctgc ttctaattgct ctttgtgttg 180
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 gtggtactgt tgatgcgaag tacgatagtg cggatacgaa gtctgacggt actactgatg 360
 ggtaggtggt attgagtgct gtagcggggg ccttagagga ctatcatggt ggtcataatt 420
 actentcnta acattctgtc cgactaccac ccaaccgtgc ctgcctacgc cgaaagcctg 480
 actaaatcac taaa 494

<210> 22528
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-F3

<400> 22528

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 aaaaaaggat aagggtcgct gaccataag acttaagccc atgcatgtgc gaacgtaaag 180
 ctacagtccc ctcacattgc aattcaaacc aaccctatcg gttgcatacc cataatatcg 240
 ggaacgtgaa aattccgttg catttaaate caccgtttcc gacgtatacc ttttccctct 300
 tagccagtgc aacaaggatt aggttggcat tgaccgttac cattaatate cttctaacte 360
 gaacggggaa cggtatctct ttcgcattcc aataccaaat gtcgtggccg ccatggccat 420
 gtgtattgcc attgccgtaa ccggt 445

<210> 22529
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-F4

<400> 22529

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cacaacgccc cgagaggcta aaccccatat accgagccgc ggatccggat acccgataaa 180
aaagagcgag gaaagaagcg tgtcctagcc accaatccgc cagcacggtc ggatactctc 240
tccgagcgga cgtattcaac atatcgtaaa acacgcccc aataaaaagc ccgcccgatt 300
ccgcttcgat ttacgattcc atacaccgtt gcctaagcaa ctttagtaat aggcccaata 360
attgcggcgg cccttaagtc ggctgagggtt gcgggttagcc ttagagtcgg gggagagggt 420
gcggctag 428

<210> 22530
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-F5

<400> 22530

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cattcttggg ogaattgacc ttagggcccg taggttgcca agtagaaaag acaatctcct 240
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gccctttttg ctttccaaga ctggtccatt tacgcgtaag cgttgcctat acggaattcc 420
ctcgtctcct gggttcctaaa gcctctaccc gaacacctgt catcattatt aag 473

<210> 22531
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-F6

<400> 22531

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gtgagtgtat ttggtagtcc gacgggtgctt acgcggagcc ttcgaggggg actgttaatt 180

tttccggtac taaggcgagt gataagacgg agtttggtga gtcggcgaag tcgactgata 240
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atactagggc taagccattc tattccactt gtgtggcttg ttaggtcggg tagagcgcta 360
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<210> 22532
<211> 479
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-E1-E2

<400> 22532

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gcctatggcg acggagttgg atatgacgtg gtggtcgcct gtgggtgagt cgggttttga 180
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ttcgcattgt gggatatatg tgcgtcgggt ttggccttcg ttgtgtgttc ctggggcggtg 420
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<210> 22533
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-D10

<400> 22533

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cttctcacag agctattcaa acctaaccta ggggttgctg acccataatg gtgcgatcgg 120
gaaaatttcg gtgacattta atccaactgc tccgtagtat actttttccc tgtagtcgg 180
tgcaacagtg aacaggtttg tattgactgt ttccattaat agacgtgtag ttcgaacgga 240

gaacgggatg tcttttcgcag tgggtgtacaa gtgtcgtgcg cgcggcggcc a 291

<210> 22534
<211> 235
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-E1-D11

<400> 22534

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gagaatgaag agttagtta gtaattaggt ggggggggag taatggtatt gggactaggg 120
ataaattatg agttaaattg agtggtgatt gagtgtgaaa tgataagata aaaaggagta 180
agtgagttaa tgattgagag agtgtgagga tgaataagta gggtggggtg tatgg 235

<210> 22535
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-D12

<400> 22535

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ctgtgggtgtg gctactagca gggcaaaatc aattcgctct atgatggctc aaatttagtc 180
tatgcctttc accggcgggc gaataacgta atatccggcg aacgtcgtcc tataacgaca 240
ggaagagttg gtactaaagg actatccggt gatgtcatca ccaatgtccg gtcggtataa 300
gttaggcact ttc 313

<210> 22536
<211> 493
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-031-Q1-E1-D2

<400> 22536

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 gggccgtggc ggtcttaagg aggttgcggt tattggtaat attagtgttg gtagtaaggc 180
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 gacgatgttt gttgatgttg agaagttcac tctcgtgat ttttaaggtag atgttactgc 360
 ggcgacggat gttaagaaag aggagggtaa taataaggcg gttgcggaag aggactcgtc 420
 cttcgaaactt attacggttg atgaggtgtc cgtcgcggag gaagggtttt aggccgatga 480
 attatctaaa act 493

<210> 22537
 <211> 482
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-031-Q1-E1-D3
 <400> 22537

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 ggcgtcttct tcggttggtg ctgtggcggt gttgcccggt ggggtcgtgt gcgcggacgc 180
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<210> 22538
 <211> 484
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-E1-D4

<400> 22538

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<210> 22539

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-D5

<400> 22539

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taggtgcatg cggatgagta ttcgacgcgt gagactgagg gttattattc tgcgggtggtg 180
gctactgctg gttatgatgg cgttgatcgg gtgtatagta tggcgccctgt tgagcccacg 240
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<210> 22540

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-D6

<400> 22540

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<210> 22541

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-D7

<400> 22541

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<210> 22542

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-D8

<400> 22542

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<210> 22543

<211> 478

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-D9

<400> 22543

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<210> 22544

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-E1

<400> 22544

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ccaaaaaat taaacaatat attggcaaag caactaaatt aaatatgtgt cgatattgat 180

tgactaggtg attttgtctt aagaggaaac ttattattgt ggttgggggtt ccttagactc 240

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atgtacgtgt cggtgaaagt gccggtcgct acttagaaga tggcgcctat gatcgcgtag 360

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<212> DNA

<213> Zea mays

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<400> 22545

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cctgattcta gtacgtttgt gccttccttag actgtgtagg agaaggttgg tactgcgttt 180

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gcgctggcga aggggagtaa gtgtgctaag cggatggaga cgaagtgtaa tcgggggtaa 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-E11

<400> 22546

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<210> 22547

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-E12

<400> 22547

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<210> 22548

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-E1-D1

<400> 22548

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 <223> Clone ID: LIB3066-031-Q1-E1-B7
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 <211> 423
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<223> unsure at all n locations
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 gaaccataga gagacggtag gttcaatacc gaaagaatac cgtgataagg accttagatc 360
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 <211> 426
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<223> unsure at all n locations
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cgagggttttt tgggttggtgt tgtgcttctg ttgttggtgt tegtgtgtcg tegtcggttg 180
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<210> 22553

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-C10

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 tgttccgtag tatacctttt ccctgatagt cgggtgcacca ttgaagaggt ttgtattgac 300
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<210> 22554

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-C11

<400> 22554

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 gccccataat gctgcgatcg ggaaaatttc ggtgccattt aatccaactg ttccgtagta 240
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<210> 22555

<211> 473

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-C12

<400> 22555

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<210> 22556

<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 22556

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cggaaggtta atattgntca tattgntaaa caaccaatcc cagcgtcgat aacatcccaa 360

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cg 422

<210> 22557
<211> 466
<212> DNA
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<223> Clone ID: LIB3066-031-Q1-E1-C3

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catatgtatg gtcaggcatt atctaaagtt tctgtgccgt gtacttatag tcgcagcata 360
gtaactctat cacgtctgcc atatggacgt gcgactatta gtagtccac atgcgagccg 420
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<210> 22558
<211> 487
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<210> 22559
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<210> 22560
 <211> 468
 <212> DNA
 <213> Zea mays
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 agacttagga taaggagggt acttttttag attagtagtg gtctactcct gtcggtaa 240
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<210> 22561
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-C8

<400> 22561

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<211> 486
<212> DNA
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<223> unsure at all n locations

<223> Clone ID: LIB3066-031-Q1-E1-C9

<400> 22562

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<210> 22563
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-B6
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<223> unsure at all n locations
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<210> 22566
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 <212> DNA
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-A5
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-A7
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<212> DNA
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<223> Clone ID: LIB3066-031-Q1-E1-A8
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<213> Zea mays
<223> Clone ID: LIB3066-031-Q1-E1-A9

<400> 22571

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<210> 22572

<211> 378

<212> DNA

<213> Zea mays

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<210> 22574
<211> 487
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-B11

<400> 22574

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gctgatatta atgagcgggc aaagtttaag ttaggaattc atgccataag gtctatttgt 300
cctcctggta tategcttcg tcgtatgggt aagttgcgtc gaaggttggc ggtactaag 360
tcgacctcct caatctacgg ttcggttacg ttaggctgtg tcggctcgtc cctaccctac 420
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tcctaag 487

<210> 22575
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-B12

<400> 22575

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ctgtactaat tctccgagga ttaccgacag tacagtggcg ggactattat acacatgtgg 120
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<210> 22576
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-B2

<400> 22576

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 tctaatagct gttgtatgtg ttgcttttgt tgactctgtg taatagttgt tgtatacgtt 180
 attttgtttc tgtatttatg gtacttgtgt ttagacgccg tgggtggtgt tgcttttggt 240
 gactttgtgt aatagttggt gtatacgtta gttctgggtc tgtgtttatg atacttgtgt 300
 ttggtcgccg tgggtggtgt tgcttctgtt gattttctag acacaaagct atctcgccgc 360
 ctctaagat catttgaagt gacctacctc ttggcctagt atcgctcct aagatcaatc 420
 gaagtgacct accgacgacg 440

<210> 22577
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-B3

<400> 22577

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 cccaatatc tttgagggtg agaagactcg cgaaatgacg cgcgttaatt tcaaaggaag 180
 gttcactgat agagccagag tcgaccgact aacgtctact cccacccgca gtcagtcact 240
 acgtacgtga cgacggttcc tccgaccacc accaccctac cttctacgcc gcccgctctc 300
 gtacgcccc cttattatca acaccgcttc aaccgacgta cataagccgc tatctaaagt 360
 accctcacg tccatccac cggccaaaca aacataaagg tccatcccca ttc 413

<210> 22578
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-B4

<400> 22578

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 ccccccccc cctctacaca caggccattc cccggggggc gtagcaggcc agtagagccc 120
 cgagtcctaa aatatcttac tcgacactac aaaattattc gctcccgaca ctaacacatt 180
 ctctggtaat taaattaaac tgagaaaacg ggccttagga tattgactcc ttacagtaga 240
 cggaagtcag gcataggcct ccggattacc cgcttccctat acgtcggta ggaatgtag 300
 acgcctctag ggctcttcgc gccctactat caggtccttc ttccggaacg tctaagacaa 360
 aggtcgttcg gctttacgcg gtagttgccg ttgcgacgtg acagttaccg ctttaatgta 420
 cgcggaagtt t 431

<210> 22579
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-B5

<400> 22579

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 tgttaagaag catgcgtagg atacttgaga atatgacgga taagatcacg gcgtttggta 180
 ctgagcaaca ctgggagaag atacggtgcg tgtacaattg ttgtaataac aacggccggt 240
 agatgtagcg catttggtgg acgtccatgg acattacgac ttcgtattgc atgggcataa 300
 catc 304

<210> 22580
 <211> 188
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-A12

<400> 22580

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tcgtcctaag ttaatggcat catttaatag tattcggacg gttcgtaata ctatgggtag 180
ctcattac 188

<210> 22581

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-G9

<400> 22581

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actaagtgat gcggcaagca gattcttttt gtgtactca tcagagattc ttggtttcat 180
ggaggccata atgttttttg gaattatgcg acagacttca gcatgggaat gtgattcttc 240
tatgccatcc attttgtcag ccatagagtc taatcttgga ctcccaaagg cattcatgtt 300
tctttgcttc atgccaatac ttgtattttg tgcctttttc attttcacgg cggagcaaaa 360
accaccatth gggaccttct tattgggttac tctgatctgc tacatagttg ctaatggtht 420
cacia 425

<210> 22582

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-K1-H1

<400> 22582

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accacctcca gaacaccacc cagttcggcc tcatggccgt cagcctcggc tactacgaga 180
 cgctcatgtc ctgctccggc agcagcacca gcagcgagat gccgaccgag gaccgcgcgc 240
 gcgcgggcat ctccccgggc ctgctccgca tgtccgtcgg ctacaacggc acgctggagc 300
 agcgctgggc gcagttcgag cgcgcgctcg cgctcatgca gacgccgacg cccacgcacc 360
 atctcaaggc cgctcgctgc gaccgcgacg gccccgaagc cgncaacaac caccaccgca 420
 agcactgacg cg 432

<210> 22583
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H10

<400> 22583

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 atgatgggtg acacacttgc tgtacagtat agcggttctg ctgctcataa caaggtattc 180
 tctgcaaaga gaggtcactt gaagcttttt attcagtcac aagagttctt taggacactt 240
 cagcggcact acagcaacac ctgtatagat gctaacaaac aggtctgtat aaacttggtt 300
 ttgggatact tccagccaca gcaggaaaaa cctgcactgt gggagttaga atcatctgct 360
 gggaagcata acaataatct ttttgatggc cacccaagta cattgaaaag agtaaaatca 420
 gatg 424

<210> 22584
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H11

<400> 22584

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 ctctctcgcc gtccacgagt caccggcagc ggcgtcgacg gcgggggggg gtcttgccg 120
 ttcaccacca tgctgaccc caccaccaa ccccttcgc caccgccccg cgtcgccgc 180

aggctctgcg gcctctgcct cggcaccgcg ctctctcgcg tcctctgctc cgcgctcgtc 240
catgtctgctg ccccgcttcc gcgcgccgct tccgcctccg cgcgcttctc cgtcatcata 300
gacggaggca gcacggggcac ccggggccac gtcttctgca cggggcacga cggcagcccg 360
gatctggcgc tctccaccgt gatgcgcgtc tccccgggac tctcgtcctt cgccgccgac 420
ccggcg 426

<210> 22585
<211> 332
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H12

<400> 22585
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gtcctgtcgt acaaccagct gacggggccg atcccgcgcg acgacgcgcg cgacgagatc 120
aacaccgtgg acctctccca caacaagctg acgggcgacc cctccacct gtctgccgcc 180
ggccggccca tcggcaaggt ggacctgtcg tggaaactacc tcgacttcga cctgagccag 240
ctgggtgttc cgccggagat gacgtacctg gacctgtccc acaacctcat ccggggcacc 300
gtgccgctgt cgctggagcg gctgtccacg ct 332

<210> 22586
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H2

<400> 22586
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cggcggcaag atggtgcagc gtctgacctc ccgcaagcgg tacagctatg ccacgaagtc 120
caaccagacg cgggtcgta agaccctgg tggcaagctc gtgtaccagt acaccaagaa 180
gagagccagc gggcccaagt gtcccgtagc cgggaagaag atccagggca ttccccatct 240
gaggccagct gactacaaaa ggtccaggtt gtctaggaac cgcagaactg tgaaccgtcc 300
ctatggggga gtactatctg gaactgcagt tagagaaagg atcatccgtg ctttctctggt 360

tgaagagcag aagattgtca agaaagtgtt gaaattacag aagaccaaag acaag 415

<210> 22587

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-K1-H3

<400> 22587

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tgtccggacg tnccttatcc acagcgacga acgcgtcgaa cccgtggtgg ctgacgttcg 120
agagggccat cgctccgag ggtggggagc tgtctaagcc tgagatcctg tcttcgacca 180
cggactcacg ctttgcgagg cagctgggca tccctgccct cgggttttct cccatgacca 240
ggacgccccat actgctacat gaccataacg agtttctgga agacagagtg ttcctgaggg 300
gcatccaagt gtacgaacat gtcacagag cactaagctc gttccaaggc tgattcgtaa 360
aaaaaaaaa agagaagaag gaaaagtggc agtgctgatg cgtggagtgt aacatagcag 420
gttttgtaat aa 432

<210> 22588

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H4

<400> 22588

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cggcgacggc tgctattagt gttaatgtta gtgtcgatcg ggtctccttg aacaatggca 120
ggaatctgtt gcttgtttac tttcttctaa tggcaagt 158

<210> 22589

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H6

<400> 22589

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 gccaaagggtt ggcctcaag atggctacta aattttcctt cttttttctt tatgtttttt 120
 cattttaacg tgtttcattc acccatctta ttgtgattga tcgcttgcaa taaaaaggcc 180
 atctttacta aaaaaataata agctatacac aatggatcta aaataaattg cctctgaagg 240
 aaacaagctg cctaattgtt gcacagtga aaggagcgaa tcatttgcaa aacatgctta 300
 ttctgtgatt ctcaacattt gacgcctttt acgcctttac ccgatatttg ccagatcaca 360
 tgctcctagt ctgcttattg gccgattgct ttccaactt 399

<210> 22590
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H7

<400> 22590

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 tgaagtattt agtgatggag gtggttgccc tatgctaaga tcattgatcc ttgacaattg 180
 cgagaatttg agcattgtag aactgaacag cagttctttg tcttgccctc ctcttgctgg 240
 ttgccgctcg atgacattgt taaaactctc atgccc aaat ctgcaacatg tcaatcttga 300
 tggctgtgat caccttcaaa gtgcagcatt ctgtccagtg ggtctcgaat ccctaaatct 360
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 gctg 424

<210> 22591
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H8

<400> 22591

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 ggaccaccag gctccgcggg gcccgggccc gcacagcgtc accatcttcg agttcggcgc 120

cgtcgggggac ggcaggacgc tcaacacggg ccccttccag aacgccgtct tctacgttcg 180
ctccttcgtc gacaagggcg gtgcgcagct gtacgtgcc agtggccgat ggctcaccgg 240
cagcttcaac ctcaccagcc acctcaccct ttacctggag gaaggcgccg tcatcgtctg 300
cgcaaaggac tcatcacaat ggctgatcgt tgaacctttg ccatcttatg gccaggggct 360
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tat 423

<210> 22592
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-H9

<400> 22592

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accttcccc agaactatcc caacagcccg ccatcagtaa gatttacttc tgagatgtgg 180
catccgaatg tttatcctga tggacgtgtt tgcatttctg ttcttcatcc acctgggtgaa 240
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atagttctga gcatcatttc gatgctctct agtccaaatg acgagtctcc agcgaatatc 360
gaagctgcca aggattggag agaaaagcgg gatgagttca agaaaaaggt aaggcaatgt 420
gt 422

<210> 22593
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-031-Q1-E1-A1

<400> 22593

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cgtcgaacta gcacccatct tcccttagag cctgtggaag ttggctaggg ttcttgatcc 180

caacagtaac aggtgccaca gcaggatgta taacgtgcca tcccggggac tccccgcgcg 240
 gtcggcctag cgaccgagac agaccggaa agagcccgcc ccgtcgaacc gccacctaac 300
 atctatcaag gtgcgctttc ggccatacga aaaaaagaga aatccccgata agagta 356

<210> 22594
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-031-Q1-E1-A10
 <400> 22594

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 cagatggtac cgatatgacg tatactaagg tgtctatggg tctatgtcgg attcgatgaa 360
 caatagtcgc cggtatacaa ctgagaccac tg 392

<210> 22595
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-031-Q1-E1-A11
 <400> 22595

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 aagttatggc gttaacggat acgcgtagaa tcggaacttt ggtaattctag ctacagtttt 240
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<210> 22596
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-G8

<400> 22596

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tggaagtctct cctcgccctcg cgatccatta ggtcttcctt ctccgcccgc gccagcatca  180
ggggcgccgc ttccccccagg ccctcgcgcg tcgccaccct cgccagcgcc tgcgccggcg  240
cccgtctccg cgcgctccgt gctggccaca cggactcaat ccttgagggtg ctggcacagg  300
acgatatgct gaacgcaaag gagctgggtc aatgggagaa tggcttgta ttcaatgaca  360
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<210> 22597
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-F12

<400> 22597

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agaagtgttg ccatctatgg atgattctgt tgggaatttg tttgctaata gcagcacaca  180
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tgttcaccct gcacaacaca cttcttctgg ggaggctaaa actggcaagc aagaaaacat  300
aaacaatgaa tgtgtgggaa gacttgcata agtcgaaggg gtcagtgagc aactaaatct  360
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atcatcaa                                     428
  
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<210> 22598
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-F2

 <400> 22598

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 tattcgcaat tattctccat actacagaca attcacttag tacagattta aagcactatg 180
 ggtccacaaa ggtacccatg acttttgagc tctaatagcac tattgaacac aacaactagg 240
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 cccttcttaa ttaagggcc tgctccggaa tgggcctttg ctcaatcatt taacaattac 360
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<210> 22599
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-F3

 <400> 22599

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 aagcactgaa ttacgatgat caaagtggaa accttccgcc acctccttgg gaggctcagc 180
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 agatgtatg 429

<210> 22600
 <211> 175
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-030-Q1-K1-F5

<400> 22600

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atttaaaaat gttaattcac cgtttactga tcaagctatc aacctttcaa tgcattcatc 120
aatgatttac catcatcaaa gagataatct ttcgccaatt tcttagtatg atcag 175

<210> 22601
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 22601

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gccacgctgg cgctggccca cgggtgcgca ggaggaggac catcggcacg ggcggcggac 180
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cggatcgtgc tgggactggt tggggacacc gttcctaaaa ctgcagagaa cttccgagca 300
ctttgcacag gggagaaaagg aattgccaa tccggcaagc ctctgtggta caaggggtcg 360
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ggca 424

<210> 22602
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-F7

<400> 22602

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gaatactaga ttaagtactc gtgcatgcta cgtaatggtt tttatatatt gtatcctaaa 180

ttaaattata gggccgtagt tttaaatagt ttgttctgat aaaacatctg atgttactca 240
 tataaatgga tttgtactaa atctgctttt cgcaatt 277

<210> 22603
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-F8

<400> 22603

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 catgcaaggg cgacgtgacc atccaggtga atggcaatct gctggcgacc acggaccta 360
 gccagtacaa ggatcatggt aattggatcg agattctacg cgtggacaac cttgtcatca 420
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<210> 22604
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-G1

<400> 22604

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<210> 22605
 <211> 241
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-G11

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 accactctat gacgcgatta ccgtatacga gccgaggtac tcacaacata gtatcggtaa 180
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 c 241

<210> 22606
 <211> 433
 <212> DNA
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<223> unsure at all n locations
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 tcgccgtgta cgccaactgg gagttctgca agatgcaggg catcggtctg ggctgggggtg 180
 gcgccatctg ggcgttcagc gtgcgtcacct acttcccgtt ggacgtgctc aagttcgcca 240
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 tgcacggnet caaccaggcc accggcacct tcgacctctt cggcgacaac cagggctacc 420
 gcgagctgtc gga 433

<210> 22607
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-G2

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tgaccttctt cagttcacaa tcccaggagg tcggcatgca atgcatcacg caggtctctt 240
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tgaagctaaa atctttggca ggattgtact caggaacttg gagcaccatc agttagggat 360
gtcaacatga acaccagca gaggttcac cccaataaa caaaggcctc tgcacgatg 420
ggctgcttgg ccaatgc 437

<210> 22608
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gacgcccggc accctcccgc cgcacgtgtc cgcgtccgtc aacggcggtg ccttcgtggg 300
cacgtgtca gggcagctct tcttcggctg gctgggagac aagctcgggc gcaagaaggt 360
ctatggcatg acgtcatgc tcatggctct ctgctccgtc gcgtcggggc tctcgttcgg 420
ccacaccccg 430

<210> 22609
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ttaggagcaa gcgatccaat tatcgataga gcgcgagatc gatcgatcat gccgggcccgc 180

tcggtggtct ccatacctcct cctcctcctc catggcctcc tctgcctgca gctggctgcc 240
 ttggccgaga tggacgacga cgacgtcatg gaggacggca gctgcatgca tttcagtgtg 300
 tccccgccgn ctgctccgcc ggaggacgcg gatgagcggc gcgactatTTT ccgcgccatg 360
 catgccaaagg atctgttccg gcacgagcag atgatcacga tgatgggcag cgaccggaac 420
 ggacgacgc 429

<210> 22610
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-G5

<400> 22610
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 aggctaacaa tagcaccaag gacacaccga cagagtcaaa agagaccgtt ggcggtgacg 180
 acggcacggc ccagagccag acgagcttcg acgacatgaa tggcagtacg aacgactcgc 240
 agcccatgaa agaagacggg aaggtcgccg agaatagctc cgatgaaact gccagcggcg 300
 gcaaggtgga aagcacagac gacgacgca caaccggcgc ggcgtcaaac aacgcaactt 360
 ccggaggcca gaacgtcgcg gccgagacca tggcatttgc agccgcggat gatggcgcca 420
 acggcaaca 429

<210> 22611
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-G6

<400> 22611
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 ccgccgccga cgtaccacca ccaccgcagg agcgagatgg agatgaagag gatcctcttc 180
 gccgtcctcg tcgtcategc cgctcggcc accgcagtgc tggcctccac cgaggccgcc 240

gccgcgggcg ccccaactgc ctccgagtcg tccgcgagg ctcccgtgg cgctggcgct 300
 ggcgctgccg ctggcgccgc cgcctcgggg cctccgcca gcagcggcg gcccgcctc 360
 gccgcgcgc ccgcgcgct cctcttctcc ctctcgct actacctcca ctaagcgtgt 420
 gcgtgcgtac gtacgc 436

<210> 22612
 <211> 421
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-K1-F11
 <400> 22612

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 ctctcatttt ggcgatactg cggacttcaa gtttaagaga cgaagcttct agagtcattg 180
 ttgccgctcc tattctggca tttgtgacaa cccacattct gtacctcaac ttctatgagc 240
 ttgacaaaagg cctaaacatg aaggtttgta ctgtgataag cattgctcag tgtctcctgt 300
 gggcactgtg ggctgtcatg agtgggcatc gttcgcggt caagatcata tctgtcgccg 360
 tcggagggtgc ggttgcagta cttgtggaag cctacgacat tccaccgca tggggatacg 420
 c 421

<210> 22613
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-K1-G7
 <400> 22613

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 ccgggcagta ggaggagag gaagggcggc atggcggcgc cgccggcgag ggcccgggcc 180
 gactacgact accttatcaa gcttcttctc attggggata gcggtgttg caagagttgc 240
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gactttaaga tacggacaat agaattggat ggtaagcgta taaagctaca gatttgggat 360
acagcgggcc aagaacgctt ccgtactatt accactgcgt actaccgtgg agctatgggt 420
at 422

<210> 22614
<211> 417
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-030-Q1-K1-D7
<400> 22614

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tgcgtctatt ctttccacga cacttcccag attggttaga gcttccctgg tccatcatcc 180
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gattcaggaa cgccttcagg aagggaatg gtgtgtccaa ctccatcggc atccttctgc 360
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<210> 22615
<211> 403
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-030-Q1-K1-D8
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ccagtctttt gggtcacaaa aggtttctct gggagcaaac catcgatgtt actttttcca 180
gcgtgcatat gtatttatgc tgggtaactc aaaacagtat ctggcctttg cgtaccagat 240
taggttttgt tcggttattc ctatcttcat gtggattgta tgagattgga aggaattatg 300
agagatgttg acttgtttag gatttaaact atccaataat ccacataatt caagtttcgt 360
tggtgttaaa aaaaaaatg gaaaacagaa aagcaatcag ttt 403

<210> 22616
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-D9

<400> 22616

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gaattgtcaa cggcataatt ctagtcaatg ccaatgtcag gaccaactac tggacaaggc 180
tgaacatcta atacgcttca taggacgcat actatggtga gagagctcat ttgtaccaa 240
tgccgacaag ctaatatga cttagaaaat cagggttatac tgaagcagaa cactggccaa 300
gatgaacatg atgctacatg tccataagtt gagccatatt gcgttaggat gatatgcatg 360

<210> 22617
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E1

<400> 22617

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ggcgccgtac tgaagctgca gttctgcac cagaggaact gcgtgtacga aggccgtggc 300
aacgccccgt gcttctgctg cggggccttg aagcccaacc agtgctacga aacgagggac 360
gggtgcagcg gcaactgcgt gtagcgggtgt agccgccgcc gccggcgagg gcgagtgatg 420
ggagatcg 428

<210> 22618
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E11

<400> 22618

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ttaggcattc catgaagagg gggaggaaga gcagcaaggt gatgtccatc tcgattctgg 180
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gaaagtttga tatcgagaag gcaaagcaaa tgtggtctga tatgctgaag tggagaaagg 360
agttcgggtgc agataccatt ctcgaggaat tcgaattcga agaagctgat aaggtggcag 420
aatgct 426

<210> 22619

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E12

<400> 22619

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gaagaagaac cgtatccagg tgtccaccaa caagaagccg ctctatttct acgtcaatct 180
cgccaagagg tacatgcaga actacgacga ggttgagctc tccgctctgg ggatggccat 240
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gacctcaca tcaaccatcg gcaccaagga tgaaggcgaa ggccggcttg tccgtaaagc 360
caagatecag atcctgctgt gcaaatacga gaacttcaac agcatcatgt cgagcaagaa 420
gtccg 425

<210> 22620

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-K1-E2

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gccggagaac tggggcaagc tgagccccgc gtacaagctg tgcgggcagg ggaagcagca 240

gtccccgatc gacatcgtca ccaagcaggc cgtccccaac gccaacctcg acacctcaa 300

ccgcacctac gccgncaccg ncgncacgct catcaacgac ggccacgaca tcacgatgac 360

gttcgagggc aaggctggga cggtaatggt gaacggcaag gcgtacagct tcgagaagat 420

gcactggcac tcg 433

<210> 22621

<211> 408

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-K1-E3

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gcatgagcga gatggagatg aagaagatcc tcttcgccgt ncgtcgtcga tcattcgccc 180

ggctcgggac accgcagtgc tgggccttca ccgaggccgc cgcccggggc gcccgaactg 240

cctccgagtc gtccgceag gcttcgcgtg gcgctggcgc tggcgctgcc gctggcgccg 300

tcgactcggg gccctccgcc agcagcggcg cgcccgctct cgccgcccgc cccgtcgcgc 360

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<212> DNA

<213> Zea mays

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<400> 22622

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tcgaagcagc aaaagacgaa ctctaggtca caagtgtttc ctgcaatgta tctgcttcat 180
ccatgatcct gctggactac taaaattcac atgcactagt cgtaataaag ccagtgcgct 240
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<210> 22623
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E5

<400> 22623

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gtggttgg 428

<210> 22624
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E6

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tcgcgctagt ggcgccacc gcccacagg tagcggaggc aaagaagaag agagcggcgg 180
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ccaacctggt gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360
tcacggcgcc ggccatgaag gtctgccagg aggagtgcga caaggcgtac gtggtg 416

<210> 22625
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E7

<400> 22625

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caaccgaccc gagcgaaatg agcatggaca tcgtcaagtc gcgagccctc tgaaacagcc 180
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cattgt 426

<210> 22626
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E8

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ccccacgtca accacggcaa gtttaaggcg gagccgtgga cggacgggca cgcgacgtac 180
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<210> 22627
<211> 426
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-E9

<400> 22627

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tctgagcttt aaactcacag taaacttctg cgttgtttca gtggctggct tctcccgtcg 180
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tgtatg 426

<210> 22628
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-D6

<400> 22628

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tgggttcc 368

<210> 22629
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C12

<400> 22629

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ccttcattga tccaagtggg gtggatcgct tcaggcgcca atttgctcat ttggaagaag   300
gtactgcaaa ggggtgaaaa cacagtccac agctgcgaca gaatgtttct ttgccaaggg   360
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c                                                                 421
  
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 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C2

<400> 22630

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ggatcagcgt aacacagaga aatcaatggg gggaagggtga gagaggcaga cagacacagc   180
agagagaagc atgcatggtg tgctgcagct gcagtgcagg acgacgacga cgacggcagc   240
agctagcagc gagtggatgat gtgagataga gaaacaaaat gcatgcagca aatagctttc   300
ttcacttttt ttgcaggcgg atcggagggg gagcggcagg catgaattga tgaaggaatt   360
aacacaccaa tgcaacttgg aggagcgtc agctaaacat gtatcttcgt tcacttgtgc   420
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<210> 22631

<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C3

<400> 22631

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cgacagcccc aacacgggacg gcatccacat cggcgactcc agcaacgtga ccatcagcag 180
caccaccatc ggcgtcggcg acgactgcat ctccatcggc cccgggagca agatgatccg 240
cattcatggc gtcaagtgcg gcccatgccg cggcatcagc gtctgcagcc tgtggcgcta 300
caaggacgag aaggacgtgg aagacgtgca ggtgacgggg tgcacgatcg ccggcaccac 360
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<210> 22632
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 22632

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gacccggagt gcgtcgagca gatgggtccag gccggggtgt gcctcgctt cgccaagggtg 180
ctcaaggagg gacccatgaa ggtgcaggcc atgtggcctt gggccgtctc ggagctcgcc 240
gcccaaccacc ccaagtgccg ggacgccttc gcgcagcaca acgtcatccg gctgctcgtc 300
ggccacctcg ctttcgagac ggtgcaggag cactccaagt acgccgtcac gtccaagatg 360
tcgatacact ccgtgctgat ggacagaaaag aacaacgccg nctctgcggt tcagccggac 420
ttgctggatg c 431

<210> 22633
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C5

<400> 22633

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gcatccaatc ttcttcactg ggtcctccgc tgctttctagt cacgcatcta aatccggagt 180
tgccagcatt cgcttgaggt gcctgacaaa gcacaccatc atgcaggcta gcgataggtt 240
caacataaac tctcagcttg agcatcttca agccaaatat gttggtacag ggcatgctga 300
tttgtctaga tttgaatggg ctgtaaacad ccagagagac agctatgcct cttatatattg 360
gcactatcca atgctagcat attttgccat tgctgagaac gaatcgatcg gaagagaacg 420
ttacaatttc 430

<210> 22634

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C6

<400> 22634

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tgccctctct ggtggccaca ccttggggaag gtgccacaaa gagcgggtctg gttttgaggg 180
ggcctggact acgaaccctt tggctcttga caactcttac ttcaaggaac ttctgagtgg 240
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ccgccctctt gtggagaaat atgctgcaga tgagaaggca ttctttgatg actacaaaga 360
ggcccacctc aagctctccg aactggggta tgctgatgct taaatgggcc atatcctgga 420
gcgggac 427

<210> 22635

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C7

<400> 22635

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tgccatgagt tcaatgagct agagtacttc agctcctctt cgaagatgaa cttctgggga 120

tattccacaa taaatTTTTT ctcaccaatg gcaagatatt cttcaagtgg cataagagac 180

tctggatgtg gtgccataaa tgaatttaaa gcttttgtaa gggaggccca caaacgggga 240

attgaggtga tcatggatgt tgtcttcaat catacagctg aaggtaatga gaaaggccca 300

atattatcct ttagggggat agataatagt acatactaca tgcttgcacc taaggagag 360

ttttataatt attctggttg tggaaatacc ttcaattgta atcatcctgt agtccgtgaa 420

tttatag 427

<210> 22636

<211> 429

<212> DNA

<213> Zea mays

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<400> 22636

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gccaacggcg cctccaaggt caccgtcaag gacgtcacct tcaagaacat cactggcacc 120

tcctccaccc cggaggccat tagcctgctc tgcactgcc aaggccccatg caccggcgctc 180

accatggatg acgtcaacgt cgagtatagc ggcaccaaca acaagaccat ggctatatgc 240

acgaacgcc aaggcagcac caagggttgc ctcaaggagc ttgcatgctt ctagaccctc 300

cgtcgactga cccatctctc tagttataat ttttctctcg tccttgcatt gcatattagt 360

tgctatccat tggtaacgca caacagtaaa acgacaaaca tccaacagct atattatggt 420

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<210> 22637

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C9

<400> 22637

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 accgaccttc taccatatac taccgacctt cagagacgcc gcctacgcac ccgtctgtac 180
 cttctacggt ctttctagcg tctgaggctc atctgctggc aacgctcact ggtctggcgc 240
 ctacgctctg gggacacgga tgactgcctg atctccatgc accgcaacag gaggcaca 297

<210> 22638
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-D1

<400> 22638

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 caatggaagg tcccagatct cttctcgcca ttaccgcgcc cggcccggtca attcccatat 120
 ctcttcaata aggcgcgccg cggctggcgc gacgtcgccg gccatggtgc ggggtgcagga 180
 gaccgggcca tggcggcacc ggcgcgcgag cccatccctg gcgacgcgcg ggcatcaagc 240
 cccggtgacg gcggcccctg cgcagacgcg gtcaccggcc tcagccccgg tggcgggcgcg 300
 ctgcctcacc ggccccccag cacaggagga cgcgtcggtg gctcggtgct atggacgcgt 360
 cggtggtctg gtgctatcga cctcgctgtc ggggtccctgt tcccgctgtc gctc 414

<210> 22639
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 22639

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 aaaccctagc caacaagcgc cgttctgcga ggctctcggc agcggataac ttaacctgtc 120
 gcgcaaggat cgggggagag aaaccagcgc caacttacgt ggatcggggg tgtttggtgc 180
 tgctgcggcg gcgcagggat ggaccggaag cgcacatcaagg acgcgctcga gaagcacctg 240

nagagggtcgt cgccgtctac ttccaggggc gtcgtgtcca aggagagggga gcgcctcgct 300
gccgggaagc tgccgtcatc gcttggcaag gcggaggtgt ctgatggtga ggaatttgaa 360
actgacagtg aagattctga tgtgagtggg tccgagggag aggacacgtn ctggatttca 420
tg 422

<210> 22640
<211> 426
<212> DNA
<213> Zea mays
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<400> 22640

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gcataacccc aaccggagag gacggccgac ggctacgagc tacgtagccg tgggtccggcg 120
agtcggggat tccaggtcct tgacaatgac ccaactggaaa aggcaaatgc atccattagg 180
agcagaactc tcatgaacaa gcttgttctg cctttacttt tgggtgaact tgtgataacc 240
aaccctaaact gccaaaaaat ctggtgttgc tacatttgta tcaatcttta cctgagcttg 300
tgtttttgta agcttatgca tgtacctcca catgtataga tatgctacct acattttctt 360
tctgtggtca tatgatatgt tgacaaggtc acagatatata tctcagtata tgatgacgct 420
tctatg 426

<210> 22641
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-030-Q1-K1-D2
<400> 22641

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tctgcatagc tctacctat ctttaggatt atgatttgga tttggattcg gatttggatc 120
gggtgtgttt actgcgtaac catgagcgag atcatgaagc taaagcgtgg gatcagcagc 180
aaaccaggag accacctcgt ccaaaatggc caacaacatc catgtcacga atgggaggag 240
caacatcact actggccctg cacacaggcg ccgacggaga gcacgaccga gtcgcccagg 300

atcccaggcg ggagccagaa gaaggcggtt ctgggcaagg tgaagagcat tgccaagaaa 360
 tggatgcaca tgctgtatca catgaagaaa ccctgcgcca cgggaggaga tgatgtggac 420
 c 421

<210> 22642
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-K1-D3
 <400> 22642

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 gccggcggcc acaggaagga gaaatggctt ccgcacacaa cgctctccgg gtgtttttca 120
 tcctagccgt ggtatgtgcc gtatgcacag cgaaaaggac aggagccaac aaggaagaat 180
 cggcggcagc ccccggtggc gctgctggag gcagcggcgg gacgttcgac atctccaagc 240
 tcggcgcgac cagcgacggc aagacggact gcacaaaggc agtccaggac gcgtggacgt 300
 cagcgtgcga agcgaccgga agcgccacgg tggatgccc caagggcgac tacctggctg 360
 gccctctcaa cttcactggg ccatgcaagg ggagcaacat cgccatccag ctggatggca 420
 acctgctggg a 431

<210> 22643
 <211> 354
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 22643

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 gcgcgtcacg ctcgacctca tcaccgaggc gtccggcacc atgtccgcag gcatcgccct 120
 gccaccctcc aacgcgggag cgccctccta cggcgcgcg gcgccttcg ggggctccgc 180
 cgatgcccc gccggcgcc cccaggggccc tgcgagcgcc agcggcccgct ctggtgacga 240
 cgcgcggcg tccggtgctg gtgccagcgc gtcggctgct gatgctctcg cggcgggcgn 300
 ctcatgcgga gcctctagcg caccagcgcc atcgacgcc aatgagtact acgt 354

<210> 22644
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 22644

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ggcgccatgg ctaagctcgc gctggcgctc ctctcctgc tggccgtggc ggcgctccgcg   180
tcggccagca gcgggagcca cctggatctc gacctgggct tcctctctc tggggaccgc   240
cggagggagt gccgcgggac ggtggccgag tgctcgcgcg aggagtcgga tgaggagggc   300
cttgacctgg ccgatccca ccgncgcgcg ctctacggcg gcgggtacat cagctacggc   360
gcgctgcggc gggacaacgt gccctgctcc cgccgcggcg ccagctacta canactgccg   420
cccggcggc                                     429
  
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<210> 22645
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-A4

 <400> 22645

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gacgccttcc tgacaaagta tgacatcaag ctgaacaatg ctattctcgc tgaggagaag   180
cacttgcccta tgtatgacga gttggctagc aagagcaatg ttgaatatat tgccggagga   240
gccaccagca actctatcag ggttgcccaa tggatgcttc aaactcctgg tgcaacaagt   300
tacatgggat gcattggaaa ggacaagttt ggtgaggaaa tgaagaaaaa cgctcaagct   360
gcaggagtta ctgctcatta ctacaggat gagactgctc ctactggcac atgtgctgta   420
tgt                                               423
  
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<210> 22646
 <211> 267
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-A5

 <400> 22646

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 gagcactacc aagtgttttag ttcaaatttg aactaaatgt tgaggaattt gttccaaatc 120
 cccagcatcc gaacatgcct ttatatatat atatattttt ttttctttgc ccggttttgc 180
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 acagaagata atgtaatttc ctggagt 267

<210> 22647
 <211> 306
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-A6

 <400> 22647

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 aaatagaaat atattaaaaa ataaaaaaat atataatggt ttttaatggt tatttgtgaa 180
 aaatattttt gacttgtatt gtttttaatt tgtttatttg aataaattta tttgttctgt 240
 tgttgatttt tgagatatga ttatgccgtt tgctgtttta aatatttggt aagattgatt 300
 ggccaa 306

<210> 22648
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-A8

 <400> 22648

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cgccaggagg aaggaataaa ctactgccca gccagtgaag ggggagaagt gtactgctcc 120
gtcgaccagt gcgcgcaccg cccggcaggg ctgctcatct cgtcgacgac cagtggatta 180
atcggcatgg cggctctggc cacgtcgag ctcgtcgcaa cggccgcgg cctgggcgtc 240
ccggacgcgt ccacgttccg ccgcggcgcc gcgcagggcc tgaggggggc ccgggcgtcg 300
gcggcgggcg acacgctcag catgcggacc agcgcgcgcg cggcgcccag gcaccagcag 360
caggcgcgcc gcgggggcag gttcccgtcg ctcgtcgtgt gcgccagcgc cggcatgaac 420
gtcgtctt 428

<210> 22649
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-A9

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cctgcaatgc aagccaaatc gcctgctgct gcgctggtca acaactacct gactcagatt 180
cggcagctgg ggaccatttc aaaatacagg aacgtttcaa gattcatttc tcccatctct 240
cagccatcta cgaagaacat aggtccatgc tgtagcttca gctcgtcttc tgatggcatg 300

<210> 22650
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-B1

<400> 22650
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ccgcgctcct cttctccctc ctcgctact acctccacta agcgtgtgcg tgcg 174

<210> 22651
<211> 191
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-K1-B10
 <400> 22651
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 aaagtgacaa gtgattatga gtttggggga tggtttaatt gcaattttgt ttacattttt 180
 aattctgatt a 191

<210> 22652
 <211> 290
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-K1-B11
 <400> 22652
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 gccctcctac ggggcggcgg cgccgttcgg aggcgccgag tacgcaccct gcgggacctt 180
 ctacggccct gtcagtgcc a gggggccatc ggctgccgac tccctggcgt atggcgccag 240
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<210> 22653
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-K1-B12
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 aataatgaaa atgggcgggtt catttatgga gttgcgagtt ctcttggtta aagagcatcg 240
 atggaggact tctatgaggc aagaatagac gacgttgatg gagagaaaat tggaatgttc 300

gggtgtatatg atggtcatgg aggagtccga gcagctgagt atgttaagca gcaccttttc 360
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 taca 424

<210> 22654
 <211> 239
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-K1-B2
 <400> 22654

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 cgggatgcct ggcacgcaat gcgcgattct gcctaacacc gacttaacgt cccgtggcag 180
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<210> 22655
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-030-Q1-K1-B4
 <400> 22655

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 cattcttacc gcagtagtgc cagcagcagc agcagagcta ttaccagtgg ttctcaatat 180
 tgtgacgcat acagtgggtg tggcatcaac aacagaactg ttctgaatc tgccaagata 240
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 ctggaaccaa tcaaatgtac taccagctgc ggcaaagaga agccatttgc cttgctgtcg 360
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 gctttttgac aa 432

<210> 22656
 <211> 143

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-B6

 <400> 22656

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 aaatcagatg aaaggggtgaa tgc 143

<210> 22657
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-B7

 <400> 22657

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 ttcgagatca accaaaaatt ggatgacctg tactacggct tcgaagccct gcaaccgtgc 180
 gtggatgatt ggaatgtcca ctacctgaac catgatctct aggtgaactt catggacgac 240
 ttcgacaggg ccctcgagca gattagctct aacgtcatca atgtactcta tatcaatgat 300
 gttcatatgg caggtactat cggaaccagc gatgtgcttc atgatatcca tgtaatgtac 360
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<210> 22658
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-K1-B8

 <400> 22658

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 tacgtggaaa ttgcagtcct tgtttgaaga gctaagagaa aaacaggcca acgaagaatt 180

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 agagctaagc acttctattg accgtatcaa aacctttggt gataacttga aaatatttgg 300
 taacagatcc gtgtcagcag aggatggagc taatgggtccg tctaagcaat caaacctctg 360
 tagatatctt gaggaagaat atctccaaac tgagaaaaag gtcgtagctg cattcagttt 420
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<210> 22659
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-B9

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 acgaggagga cgagaaaggg gatgggtcag ccacttttgg gttgcatttg caattctgat 180
 tgggtggtctc ttattggatg tgctgatatc tgtttttctt ggtgtttccg cacttcctgt 240
 caatataata attggtgttc ttatagttct cggattgggg caccgccttc atctagctct 300
 tgagtgtctg cacgaatggg gctcaaggag gaacgttggc aatattccga ggctggagaa 360
 catagcgccg actgggtacc accctgcagt agtataatcg ttatgggact tgtaaatagc 420
 gtaag 425

<210> 22660
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C1

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 gcattcggag aggagagagg aggcctccga gcttgcccc ttcgaccga ccaagaagaa 180
 gaaaaagaag aaggttgtca tccaagaacc ttctgatgaa gtggacaagc ttgcagagaa 240

gacagaaaca ctggcagtcg cagaacccgc tgaacttaac ttcactggaa tgaagaagaa 300
aaagaagaag ccggtggatc ttgattcaac tcttgatgag cttggagatg gggaggacac 360
tcaagatgat caagctgtag aggaacaagg ggaaggcatt gtgctgggaa gtgtccctac 420
atacccttgg ga 432

<210> 22661
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C10

<400> 22661

aaaaaaaaa aaaaaaaaaa aagggcgccg ctgcgatcaa cctcgatgat atcaaatggc 60
atcagtgtgt acgtttggct agatttgaga atgatagaac tatatogttc atacctcctg 120
atggatcttt tgatctaata acatacaggc ttagcactca ggtaaaacct cttatctggg 180
tcgaagcaca gattgagaaa cattctagaa gccgtataga actcatgggtg aaggcaagga 240
gtcagtttaa agaaagaagc acagcaacga atgttgaaat tgaagtgcct gttccttcag 300
atgccacaaa cccaaatata agaacttcaa tggggtctgc tgcataatgct cctgagagag 360
atgcaatggt ttggaaaata aaatcattcc ctggtggcaa ggaatacatg tgcagagcag 420
aattt 425

<210> 22662
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-A3

<400> 22662

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gaaatgatac aactacacaa cattactaaa accataaatt taatcaactc cactataatc 120
caactacctc tacaatcatt aatctaaata tttcttattc acatttattt atgcctattc 180
acaaaaaatc gtactcttac tgactttaca tcttttcata atagctctac atttctctaa 240
tttttacaat tgagaatctt aacctctctg taacgctcat cataaataac ttaatatctc 300

aaaataactct ttacacctct atattcactc tttacgacaa tttcaacata cact 354

<210> 22663
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-C11

<400> 22663

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tcagtttggg ggtgtgagct gatcgagatg gcgatgtagg tatgatgagt accgctgctt 120
gttccgcggg ctcgactgag ccactgacga cgactctctc cacaactcct tcatcaccta 180
ctgcaagggtc ctctagtaca atatcatact cgatcggttg actcagaggt 230

<210> 22664
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-G9

<400> 22664

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acaagaagca ttctaggcac agtagtagca atggaggtgg cagcaaaaga gacaagaagc 120
attcttaccg cagtagtgcc agcagcagca gcagagctat taccagtggg tctcaatatt 180
gtgacgcata cagtgggtgg ggcatcaaca acagaactgt tcttgaatct gccaaagatat 240
ctccattggg ggtagctgaa aatgttacac cgcaagagat ggttcctgta ctgaagacac 300
tggaaccaat caaatgtact accagctgcg gcaaagagaa gccatttgcc ttgctgtcgc 360
gccagttttc cctgcaagg taaaaagga tgttcac 397

<210> 22665
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-H1

<400> 22665

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 gtctgctgcg tctggtggtg gtgaagggga gaaattcgtg agatctgttc cggattaagc 180
 gtgcgagctc gggaatcaag ggtttcacac atagcttcgt cgatttgaat ttgatgtact 240
 aatggagtct aaggggtggca aaaagtctag cagtagtcgt tctatgatgt atgaagctcc 300
 ccttggttac agcattgagg acgttcgacc tgc 333

<210> 22666

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-H10

<400> 22666

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 aaaagaaaga caaacaaaaa aaaaaaaaga atagctaacc gggagagccc cgccatggtc 120
 catcttaact tcttcgcaaa attaagttaa caggccgctc cttttttatt ctcacggtct 180
 gattcggggg tggcccttta aaaaaaattg gcttggagag aacacagccg tttccctagc 240
 taggcgaatc tcccaaaact cccctttc 268

<210> 22667

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-H11

<400> 22667

cccacgcgtc cgcccacgcg tccggtctgc catggtcaaa ggctcagcgg actacgtcgc 60
 catcaaccac tacaccacgt actacgccag caacttcgtc aacgccacag agaccaacta 120
 ccgcaacgat tggaatgcaa agatttcgta tgagcgagat ggtgtgccca ttggcaaaag 180
 ggcgtactcg gactggcttt acgtcgttcc atgggggctc tacaaggctc tgatttggac 240
 caaggagaag ttcaacagcc ctgtgatgct catcggagag aacggaattg accagcctgg 300
 aaatgagacc ttgccgttcg ctctgtacga caagttcagg atagactact tcgagaagta 360

cctgtacgag ctccagtgcg ccatacgcg cggtgcaaac gtcttcggct ac 412

<210> 22668

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-H12

<400> 22668

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atatatttaa ttttaatttta aattattttt tatggagagg gtccacttta attttaaatt 120

tatttgggga tgggtctatca cactggcttg tctactgggtc ctggtctgcc ttaccgtcgt 180

tgtactatac catcaaataa aattagtgtg tgtcgtaaca cactgagtatt gtactagttg 240

tttttattgt tttgggtgtca ccacttaagt gttggcttac attacactag tacaatgttc 300

atgcattgca gcggcacata agaacaaata ttatatattta tcttaaccaa aaagtctaga 360

aagggatgag ttaaaaaaga attccaccct ctttt 395

<210> 22669

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-H2

<400> 22669

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ttcagaaggg agccagctcg ccgacgacgt ggaaggggaa agctctctcg agaacgtgaa 120

gaaacagctt gagatcaaca agaaggcgat ggccgctctt tacaaggagc ttgaggaaga 180

acggagcgct tcggcggtcg cggctagcca gacgatggcc atgatcaata ggctgcagga 240

ggagaaggct gcaatgcaga tggaggctct gcaatacctg aggatgatgg aacagcaggc 300

tgaccacgac cacctggcga ttcaggacct gcacgatttg cttacggaga aggagaaaga 360

gttgcttgac ttggacgctg agctcgcgca ctgcaggagg ctctgcaga acg 413

<210> 22670

<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-H3

 <400> 22670

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 acgagacagt caccaacgac gagattgctg ctgacctgaa ggagcacgtc atcaagccag 180
 tcatccccga gcagtacctc gacgagaaga caatcttcca cctcaaccog tctggccgct 240
 tcgtcatcgg cggacctcac ggcgacgccg gcctcactgg ccggaagatc atcatcgaca 300
 cctacggtgg ctggggagcc cacggcgggg gcgccttctc cggcaaggac ccgaccaagg 360
 tggaccgcag cggggcctac gtgcgagggc aggctgccaa gagcatc 407

<210> 22671
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-H4

 <400> 22671

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 cctcgtgcgt tttccaaatc agtcagggtt atggcgatgg agggaccagt tttatgccgc 120
 cctgcaatgc aagccaaatc gcctgctgct gcgctggtca acaactccct gaccagattc 180
 gggcagcttg ggaccatttc aaaatacagg aacgtttcaa gattcatttc tcccatctct 240
 cagccatcta cgaagaacat aggtccatgc tgtagcttca gctcgtcttc tgatggcaat 300
 ggatacatgg ctggaaactt tagcgacagt gatgaagatt atgttaattc tactgtgcta 360
 gaagcagttg aggtgagaag tggatcgga cgaatgtga taaagatgcg agatgggaaa 420

<210> 22672
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-H5

 <400> 22672

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 aggcgacgcg acagccgcca ggaggaagga ataaactcac tgccagccag tgaaggggga 120
 gaagtgtact gtcctcgcga ccagtgcgcg caccgcccgg cagggctgct catctcgtcg 180
 acgaccagtg gattaatcgg catggcggct ctggccacgt cgcagctcgt cgcaacgccc 240
 gccggcctgg gcgtctcgga cgcgtccacg ttccgcccgc gcgccgccca tggcctgagg 300
 ggggcccggg cgtccgcggc ggcggacacg ctacgcatgc ggaccagcgc gcgcgcggcg 360
 cccaatcacc atcaacaagc gcgccgcggg ggcaagttcc cctcgtcttt cgtgtgcccc 420
 agcgcgggga t 431

<210> 22673
 <211> 59
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-H7
 <400> 22673

accacgcgtc cgaaaaaaca tgaagttttg taaaaggac tcaaatatga taatgtagg 59

<210> 22674
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-030-Q1-E1-H8
 <400> 22674

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 gagcactacc aagtgttttag ttcaaatttg aactaaatgt tgaggaattt gttccaaatc 120
 cccagcatcc gaacatgcct ttatatatat atatattttt ttttctttgc ccggttttgc 180
 tgatagcatg gtgagaagct gtatattgga gccattcaat gtaaccatta tttatttttg 240
 acagaagata atgtaatttc ctggngt 267

<210> 22675
 <211> 434
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-H9

<400> 22675

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accgagggcg tgctcctggg gatgggcaac cccctcctcg acatctccgc cgtcgtcgat 120
gacgccttcc tgacaaagta tgacatcaag ctgaacaatg ctattctcgc tgaggagaag 180
cacttgcccta tgtatgacga gttggctagc aagagcaatg ttgaatatat tgccggagga 240
gccaccaga actctatcag ggttgcccaa tggatgcttc aaactcctgg tgcaacaagt 300
tacatgggat gcattggaaa ggacaagttt ggtgaggaaa tgaagaaaaa cgctcaagct 360
gcaggagtta ctgctcatta ctacaggat gagactgctc ctactggcac atgtgctgta 420
tgtgtgttg gtgg 434

<210> 22676

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-A1

<400> 22676

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ttaattttaa atttatttgg ggatggctc taacactggc ttgtcactgg gtctcgtct 180
gccttaccgt cgttgtaacta taccatcaa tattaataag ggattgtgga acccaacaat 240
tttgaccta gtggttttta tgggttgagg gtaacaactt aagggtgggt taacattaca 300
ctattccatt gttaatgcat tgaaccggac cttagaacca attttattat ttaatcttac 360
ccaaa 365

<210> 22677

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-A10

<400> 22677

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cctagtgcgt tctccaaatc agtcatgtcg atggcgatgg acggaccact tttatgccgc 120

cctgcaatgc aggccaaatc gactgctgat gcgctgatca acaactccct gaccagattc 180

tggcagcttg ggaccatttg aaaatacacg aacgtatcaa gattcatttg tcccatctat 240

gatccatcta ctaagaacat acttacatgc tgtagctaca gctcgtcttc tgacagcaat 300

ggatacatag ctaaaaactt tagcgacagt gatcaagatt atagttaatt ctactgtgct 360

cgcaccagct gaagtgaata gag 383

<210> 22678

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-A11

<400> 22678

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ttcagaaggg agccagctcg ccgacgacgt ggaaggggaa agctctctcg agaacgtgaa 120

gaaacagctt gagatcaaca agaaggcgat ggccgctctt tacaaggagc ttgaggaaga 180

acggagcgct tcggcggtcg cggctagcca gacgatggcc atgatcaata ggctgcagga 240

ggagaaggct gcaatgcaga tggaggctct gcaataacctg aggatgatgg aacagcaagc 300

tgaccacgac cacctggcga ttcaggacct gcacgatttg cttacggaga gggagaaaga 360

gttgcttgac taggacgctg agctcgcgca ctgcaggagg ctctctgcaga acgatccgtt 420

caacggcga 429

<210> 22679

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-K1-A12

<400> 22679

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gaccgaggat ttggccgagt tctaggtaga gaatcggttt tacttgtctc agcccggggt 120
 ctgctgcgtc tgggtggtggt gaaggggaga aattcgtgag atctgttccg gatcaggcgt 180
 gcgagctcgg gaatcagggg ttccacacat agcttcgtcg atttgaattt gatgtactaa 240
 tggagtctaa ggggtggcaaa aagtctagca gtagtcgttc tatgatgtat gaagctcccc 300
 ttggctacag cattgaggac gtccgacctg ccggaggcgt gaagaagttc cagtctgctg 360
 cttactccaa ctgcgcgaag aagccatcct gatatccctt ttggcttctc attctagta 419

<210> 22680

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-K1-A2

<400> 22680

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 ccgcaacgat tggaatgcan agatttcgta tgagcgagat ggtgtgcccc ttggcaaaag 180
 ggcgtactcg gactggcttt acgtcgttcc atgggggctc tacaaggctc tgatttggac 240
 caaggagaag ttcaacagcc ctgtgatgct catcggagag aacggaattg accagcctgg 300
 aaatgagacc ttgccgttcg ctctgtacga caagttcagg atagactact tcgagaagta 360
 cctgtacgag ctccagtgcg ccatacgcga cggtgcaaac gtcttcgggt acttcgcgtg 420
 gtcgtgctg 430

<210> 22681

<211> 144

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-G7

<400> 22681

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 tgcaacttct tttctgtgag ccgtgggctg gtatgcacgt tttagggtgga gaaaatggta 120
 taaatcagat gaaaggggtga atgc 144

<210> 22682
 <211> 425
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-030-Q1-E1-F12

<400> 22682

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 gcattcggag aggagagagg aggcctccga gcttgcccc ttcgaccga ccaagaagaa 180
 gaaaaagaag aaggttgtca tccaagaacc ttctgatgaa gtggacaagc ttgcagagaa 240
 gacagaaaca ctggcagtcg cagaaccgc tgaacttaac ttcactggaa tgaagaagaa 300
 aaagaagaag cgggtggatc ttgattcaac tcttgatgag cttggagatg gggaggacac 360
 tcaagatgat caagctgtag aggaacaagg ggaaggcatt gtgctgggaa gtgtcnctac 420
 atacc 425

<210> 22683
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-F2

<400> 22683

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 tcggcggcct cgcttgggccc acggacgacc acaccctcca caacgccttc aacacctacg 180
 gcgaggctct cgagtccaag atcatcctcg atctggagac ccataggtcc cgcggcttcg 240
 gcttcgtcat cttctccacc gaggacgca tgccgggacgc catcgagggc atgaacggca 300
 acgagctgga cgggcgcaac atcagcgtca acgaggccca ctcccacgg 349

<210> 22684
 <211> 395
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-F3

<400> 22684

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atggatcttt tgatctaata acatacaggc ttagcactca ggtaaaacct cttatctggg 180
tcgaagcaca gattgagaaa cattctagaa gccgtataga actcatgggtg aaggcaagga 240
gtcagtttaa agaaagaagc acagcaacga atgttgaaat tgaagtgcct gttccttcag 300
atgccacaaa cccaaatata agaacttcaa tgggggtctgc tgcataatgct cctgagagag 360
atgcaatggt ttgggaaata aaatcattcc ctggt 395

<210> 22685

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-F5

<400> 22685

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tcctccaccc cggaggccat tagcctgctc tgcactgcca aggtcccatg caccggcgctc 180
accatggatg acgtcaacgt cgagtatagc ggcaccaaca acaagaccat ggctatatgc 240
acgaacgcca agggcagcac caagggttgc ctcaaggagc ttgcatgctt ctagaccctc 300
cgtcgactga cccatctctc tagttataat ttttctctcg tccttgcatg gcatattagt 360
tgctatccat tggtaacgca caacagtaaa acgacaaaca tccaacagct atattatggt 420
cgacggtgta acaccctgaa 440

<210> 22686

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-F6

<400> 22686

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gtataaagct aatgccctgc catgagttca atgagctaga gtacttcagc tcctcttcga 120

agatgaactt ctggggatat tccacaataa attttttctc accaatggca agatattctt 180

caagtggcat aagagactct ggatgtggtg ccataaatga atttaaagct tttgtaaggg 240

aggcccacaa acggggaatt gaggtgatca tggatgttgt cttcaatcat acagctgaag 300

gtaatgagaa aggccaata ttatccttta gggggataga taatagtaca tactacatgc 360

ttgcacctaa gggagagttt tataattatt ctggttgtgg aaataccttc aattgtaatc 420

atcctgtagt ccgtgaattt atagtggat 449

<210> 22687

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-F7

<400> 22687

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tgccctctct ggtggccaca ccttgggaag gtgccacaaa gagcggctctg gttttgaggg 180

ggcctggact acgaaccctt tggctcttga caactcttac ttcaaggaac ttctgagtgg 240

cgacaaggag ggccttcttc agctcccaag tgacaaagcc ctgctgagcg accctgtctt 300

ccgccctctt gtggagaaat atgctgcaga tgagaaggca ttctttgatg actacaaaga 360

ggcccacctc aagctctccg aactggggta tgctgatgct taaatgggtcc atatcctgga 420

gcgggacaca a 431

<210> 22688

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-F8

<400> 22688

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 gcatccaatc ttcttcaactg ggtcctccgc tgcttctagt cacgcattca aatccggagt 180
 tgccagcatt cgcttgaggt gcctgacaaa gcacaccatc atgcaggcta gcgatagggt 240
 caacataaac tctcagcttg agcatcttca agccaaatat gttggtacag ggcatgctga 300
 tttgtctaga tttgaatggg ctgtaaacaat ccagagagac agctatgcct cttatatattg 360
 gcactatcca atgccagcat attttgccat tgctga 396

<210> 22689

<211> 409

<212> DNA

<213> Zea mays

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<400> 22689

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 gaccggagt gcgtcgagca gatggctcag gccggggtgt gcctcgctt cgccaagggt 180
 ctcaaggagg gacctatgaa ggtgcaggcc atgctggcct gggccgtctc ggagctcgcc 240
 gcccaaccacc ccaagtgcc ggacgccttc gcgcagcaca acgtcatccg gctgctcgtc 300
 ggccacctcg ctttcgagac ggtgcaggag cactccaagt acgcggtcac gtccaagatg 360
 tcgatacact ccgtgctgat ggacagaaag aacaacgccg cctctgcgg 409

<210> 22690

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-G1

<400> 22690

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 tgctcccggg gcggggcgcc tccttttcca cctctgctg gtgccacggc cgggagggcg 120
 tcgaggaggt ggcgcgcatg gggctcgccg gggacgggtc ggaggacacc gccacctca 180

gtaataatga aaatgggcgg ttcatttatg gagttgcgag ttctcctggg aaaagagcat 240
 cgatggagga cttctatgag gcaagaatag acgacgttga tggagagaaa attggaatgt 300
 tcggtgtata tgatgggcat ggaggagtcc gagcagctga gtatgttaag cagcaccttt 360
 tcagcaattt aatcaaacac gcaaagttca tcaactgata 399

<210> 22691
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-G10
 <400> 22691

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 ttggccgaac gaggcatttt cttgacattt tctcaacaca aaccatgtaa taggttttgt 120
 tgtagacttc atatagagtt gtttgagcac gatgacaagg tttgtttgaa tttaaaaatt 180
 tgcatttggt gacacgcgca gtttcaagca cgcctagtat ttatcttctc atgcgagcag 240
 ttggttcaac ttcgagaaat atttaaacta cactttactg ggggccttcg tcttcgaag 300
 gtccaacaa acatgattta acaatgtttc cgg 333

<210> 22692
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-G11
 <400> 22692

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 ctaccatctg ctccggtcca ccagaaacgg gaagcaattt atgtaaaaaa catgggtgga 120
 cgggaagaca tgccgcatta tgcaatactg gctgatacaa acttcacata tacctgggaa 180
 cccaaggatg agatcccaaa cttcttctaa ttcccggtca tcgtgatgca ccagagcggg 240
 aggcggatat agtgccaaca aaatggacag acgcctccgc atctttgtca cgttcgatta 300
 gccccgcca gaaaactacc acatggagtt caacgagtat tggaaaatca acgacaaaaa 360
 tagtccaacc ccccatatgg 380

<210> 22693
 <211> 231
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-G12

 <400> 22693

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 gacatccgca tcttcgtcta ttaccacaaa cgggcatcca ccctgggggg ggtgcctacg 120
 gggttattat tctccatagt cgtgtactaa ttccagtaac cttctacatg cctgcctacg 180
 acttcatggt ccacgacgga tactggtaca gtagcgatta cactgtcctg g 231

<210> 22694
 <211> 141
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-G3

 <400> 22694

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 gttcgtttga atgacaaatc cttagccgtg aaaaggctga agtaaattaa atcaaaagcg 120
 gtggaggtaa ccacccttaa a 141

<210> 22695
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-G5

 <400> 22695

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 catagcttca tgcaaagtag aagcaagtac tgtcagtga tggatcaact ttttgaaga 120
 tacgtggaaa ttgcagtcct tgtttgaaga gctaagagaa aaacaggcca acgaagaatt 180
 ggatagatgt ggactctgct ttgcgaaatt gatgaagtat catgtttctg catccatgga 240
 agagctaagc acttctattg accgtatcaa aacctttggt gataacttga aaatatttgg 300

taacagatcc gtgtcagcag aggatggagc taatgggtccg tctaagcaat caaacccctcg 360
tagatatctt gaggaagaat atctccaaac tgagaaaaag gtcgtagctg cattc 415

<210> 22696
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-030-Q1-E1-G6

<400> 22696

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acgcaaccgt cgcgcccgcc agcatggacc tcctctagga cgatgacgag ttcgcaaagt 120
tcgagatcaa cgacaaatgc gatgaccacg cagaaggcat cgaagccctc caacagtggg 180
acgatgagtg agataaccat cacctgcacg atgatttctc gctgcaccat atcgaaaagc 240
tggaacagagg caacggggcag cataactgag gttttatttc tcgacattac acaaagtact 300
tttatatggc agccactttt ggtacagttg atgtgcttag gttatccaag tttttggccg 360
tcagaacctc aagcccatta ncgaaagtgg cggggagccg cctcatggga aac 413

<210> 22697
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-030-Q1-E1-F11

<400> 22697

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taaaataaat gcaagacaga aggagtggta tgaaatgggg ccgggacaca ggtgctcatc 120
atatatatgg atcagcgtaa cacagagaaa tcaatgggtg gaaggtgaga gaggcagaca 180
gacacagcag agagaagcat gcatggtgtg ctgcagctgc agtgcaggac gacgacgacg 240
acggcagcag ctancagcga gtggtgatgt gagatagaga aacaaaatgc atgcagcaaa 300
tagctttctt cacttttttt gcaggcggat cggaggggga gcggcangca tgaattgatg 360
aacgaattaa cacaccaatg caacttggag gagcgctcag ctaaacaatg atcttcgttc 420

acttgtgcat tt

432

<210> 22698

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-D7

<400> 22698

cggacgcgtg ggctgcagtc atctcctcca ccaccaccac caagctcaac aacagccagc 60

tcgcgaaaat aatgaagagc cgcagcatgg catcatcggc cgcgctcttg gtgctagccc 120

tcgcgctagt ggcggccacc gccccacagg tagcggaggc aaagaagaag agagcggcgg 180

agagcggcga ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg 240

agggcaagaa ggggacggac ctggtcgtgt gcaaggagtc ctgcgctctc tcccagcagt 300

ccaacctggt gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 360

tcacggcgcc ggccatgaaa gtctg 385

<210> 22699

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-D8

<400> 22699

ctcatgatca agatcaacga ggacgcgctg ccgtggatcc gcggccacat cgcgaggaag 60

aggatgcaga agaagggccc taccaccacc atgggcaaga cgccttcgct gagaggctac 120

gtcgtcgatc cggagctcgg ttccaacgag ggctagaggt cgtgcttgct cttttgggta 180

gcggaaaaaa aataggggtgt ttctcccccc cggctcttgg tgttatattg tatatttaag 240

atcaggggaa aaaaactggt atcacacgtt ttggaaccga agctaatttg agtacaggta 300

tacatacatg catgtaatgt gagcgaagtg gcatcggaga ttcggagaga tcgatgccga 360

gtgatacatg catgactcgt tgttcagaat ttattgccct cgacttcgac agacgaagaa 420

g 421

<210> 22700

<211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-E10

 <400> 22700

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 gccggcgggc acaggaagga gaaatggctt ccgcacacaa cgctctccgg gtgtttttca 120
 tcctagccgt ggtatgtgcc gtatgcacag cgaaaaggac aggagccaac aaggaagaat 180
 cggcggcagc ccccggtggc gctgctggag gcagcggcgg gacgttcgac atctccaagc 240
 tcggcgcgac cagcgacggc aagacggact gcacaaaggc agtccaggac gcgtggacgt 300
 cagcgtgcga agcgaccgga agcgccacgg tggatgatccc caagggcgac tacctgggtcg 360
 gccctctcaa cttcactggg ccatgcaagg ggagcaacat cgccat 406

<210> 22701
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-E11

 <400> 22701

 acaaaacgtc cgccacgcg tccggccgtg caaatccatt tcgtgccttg ccggcaaagc 60
 tctgcatagc tccccccaac attaggatta cgattttggc ttggatttgg atttggatcg 120
 ggtgtgtttc ctgcgtaacc atgagcgaga tgatgaaact aaagcgtggg attagcacca 180
 aaacaggaga ccacctcgtc cataatggcc atgaacatcc atgtcacg 228

<210> 22702
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-E12

 <400> 22702

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 caatggaagg tcccagatct cttctcgcca ttaccgcgcc cgccccgtca attcccatat 120

ctcttcaata aggccgcccc cggtctggcgc gacgtcgccg gccatggtgc ggggtgcagga 180
gaccggggcca tggcggcacc ggcgccgagc cccatccctg gcgacgacgc ggcacatcaagc 240
cccgggtgacg gcggccccctg cgcagacgcg gccaccggcc tcagccccgg tggcggcgcg 300
ctgcctcacc gggccccag cacaagagga cgcgtcggtg gctcggtgct atggacgcgt 360
cggtggctcg gtgctatcga cctcgctgtc gggttcctgt tcccgtgtc gctcg 415

<210> 22703
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-030-Q1-E1-E2

<400> 22703

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gcataacccc aaccggagag gacggccgac ggctacgagc tacgtanccg tgggtccggcg 120
agtcggggat tccaggtcct tgacaatgac ccaactggaaa aggcaaatgc atccattagg 180
agcagaactc tcatgaacaa gcttgttctg cctttacttt tgggtgaact tgtgataacc 240
aaccctaaact gccaaaaaat ctggtgttgc tacatttgta tcaatcttta cctgagcttg 300
tgttttttga agcttatgca tgtacctcca catgtataga tatgctacct acattttctt 360
tctgtggtca tatgatattg tgacaaggc acagatatac tctcagtata tgatgacgct 420
tctatgaatc tat 433

<210> 22704
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-E3

<400> 22704

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aaaccctagc caacaagcgc cgttctgcga ggctctcggc agcggataac ttaacctgtc 120
gcgcaaggat cgggggagag aaaccagcgc caacttacgt ggatcggggg tgtttggtgc 180
tgctgcggcg gcgcaaggat ggaccggaag cgcacatcaagg acgcgctcga gaagcacctg 240

gagaggtcgt cgccgtctac ttccaagggc gtcgtgtcca aggagaggga ggcctctcgt 300
gccgggaagc tgccgtcatc gcttggcaag gcgagggtgt ctgatggtga ggaatttgaa 360
actgacagtg aagattctga tgtgagtggg ttcgagggag aggacacgtc ctggatttca 420
tggttctgta cattgcg 437

<210> 22705
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-E4

<400> 22705

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tttggctgca ctggttgcc actccgcgtt tcgattgttc gtgaatacgc gtggttaacg 120
aactttgaaa agaattcttc tacttaaatt cactgacgac gggacattct gtaacaccgt 180
caacatcaaa gacgcctcag tgtatacata cgctgggtgaa agcacacact cgtgtcagat 240
gacaacaagt tcatattgcc ttattttctc aggtggcact gaagcagcat cctgaccaag 300
atga 304

<210> 22706
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-E5

<400> 22706

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ggacgaacag attcaaacca attatttagc gaacagagtt caatcatttt ttttgaccat 120
ccagtctttt gggtcacaaa aggtttctct gggagcaaac catcgatgtt actttttcca 180
gcgtgcatat gtatttatgc tgggtaactc aaaacagtat ctggcctttg cgtaccagat 240
taggttttgt tcggttatcc ctatcttcat gtggattgta tgagattgga aggaattatg 300
agagatgttg acttgtttag gatttaaact atccaataat ccacataatt caagtttcgt 360
tggtg 365

<210> 22707
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-E6

<400> 22707

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 gctgttttct ctgatcagag gagaggtggg gaaatggatt gcgattattg ctgttattct 120
 gcgtctattc ttccacgac acttcccaga ttggttagag cttcctgggt ccatcatcct 180
 gctcacagtg gtcgcccta gcctgttcgc ggacagcttc aggggagacc tcgttgggtg 240
 cttcatatgc cttgtgatcg gatgctacct gtcceaagaa cacatcaagg cgtcagggtg 300
 attcaagaac gccttcagga agggcaatgg tgtgtcgaac tccatcgga tccttctgct 360
 cttcatctac cctgtctggg ccggtgtgct gcaagtctg taagcaccat tgcctc 416

<210> 22708
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-E7

<400> 22708

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 ttgggacttg ttgggttttc ctttgggtgg agagcgaggg agcgcagttg agaccacg 180
 agcactctct cgagcactgc agtgtagctc cggcgtacat gagattgtat tatgaccaag 240
 ccgggatgga aagcacggag gggaggataa acaagttttg tcacatttca cgctccagcc 300
 atcacctgag tttgtccggc gaatatatcg atttcctatt acaaatccgg ataaaatgat 360
 gtgttcctgc actgcctgat tacgtaacgc act 393

<210> 22709
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-E8

<400> 22709

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gtcacacaca ggctcctctc ccccgttgcg caacgcgctt tccccactt caccgcctc 120
ggcgccatgg ctaagctcgc gctggcgctc ctctcctgc tggccgtggc ggcgccgcg 180
tcggccagca gcgggagcca cctggatctc gacctgggct tcctctctc tggggaccgc 240
cggagggagt gccgcgggac ggtggccgag tgcctcgccg aggagtcgga tgaggagggc 300
cttgacctgg ccggaattcca ccgccgcgcg ctctacggcg gcgggtacat cagctacggc 360
gcgctgcggc gggacaacgt gccctgctcc cgccgcgggg ccagc 405

<210> 22710

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-E1-E9

<400> 22710

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gcgcgtcacg ctcgacctca tcaccgaggc gtccggcacc atgtccgcag gcatcgccct 120
gccacctcc aacgcgggag cgccctccta cgccgcggcg gcgccttcg ggggctccgc 180
cgatgcccc gccgggcct ccgagggccc tgcgagcgcc agcggcccgt ctggtgacga 240
cgcgccggcg tccggtgctg gtgccagcgc gtcggtgct gatgctccg cggcggnnng 300
ctcatccggt ccctctagcg caccagcgcc atcgt 335

<210> 22711

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-F1

<400> 22711

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taatggatta gcaaataatg aacgtgaacc catagcaciaa cctatctcaa aacttgaatt 120
 tgagtttgag aagcggaaac tggccaaaga tgatgtccga gaattgattt accgagagat 180
 tttggagtac catcctcaaa tgctacaaga atacctacaa ggagcagacc acaatcagat 240
 gaccttcatg tatccaagtg ggggtgatcg cttcaggcgc caatttgctc atttgaaga 300
 aggtactgca aagggtgaaa aacacagtcc acagctgcga cagaatgttt ctttgccaag 360
 ggaaagagta attggcacta aacatggaga tggcaataca ggtgatacgc tagcgcatgc 420
 ctc 423

<210> 22712
 <211> 377
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-F10
 <400> 22712

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 acctcaacat cttcgagtgc aagaacgtgc tgatcgacaa agtgacggtc aaggcccccg 120
 gcgacagccc caacacggac ggcattccaca tcggcgactc cagcaacgtg accatcagca 180
 gcaccaccat cggcgtcggc gacgactgca tctccatcgg ccccgggagc aagatgatcc 240
 gcatccatgg tgtcaagtgc ggcccatgcc acggcatcag cgtcggcagc ctggggcgct 300
 acaaggacga gaaggacgtg gaagacgtgc aggtgacggg gtgcacgata gccggcacca 360
 cgaacggcct gcgcatac 377

<210> 22713
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-D6
 <400> 22713

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 cccggataca tcaaggggtga aaagcaagat gctgtacgca agtccaagg accggttcaa 120
 gagggagctg gatggcatcc aggtggagct acaagcaacc gaccgagcg aatgagcat 180

ggacatcgtc aagtcgagag ccctctgaaa cagccccggc cgctgcacct gcacgctgca 240
 ggggcgcacg ggctcctgca tgcccgtggg tcgtcgaatc cttgcttgtg tgttggaac 300
 ggtcttgtgt tttcgtgtcc ttgttttcct ggaagcaaaa gccctgcatt ctatatgaga 360
 ctgtatgcca ttttccatct ttttctctcc ccatactctt gccctagtcc tgctaccgct 420
 gtagactaga acttatttgg tgtttga 447

<210> 22714

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-B9

<400> 22714

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 aatcagctac aaaccatgat ccaatcctag cggctagcga tctctagttt atattacaat 120
 taggagcaag cgatccaatt atcgatagag cgcgagatcg atcgatcatg ccgggccgct 180
 cggtggtctc catcctcctc ctctcctcc atggcctcct ctgcctgcag ctggtgcct 240
 tggccgagat ggacgacgac gacgtcatgg aggacggcag ctgcatgcat ttcagtgtgt 300
 ccccgccgcc tgctccgccg gaggacgcgg atgagcggcg cgactatttc cgcgccatgc 360
 aggccaagga tctgttccgg cacgagcaga tgatcacgat gatgggc 407

<210> 22715

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-C1

<400> 22715

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 tgtccttgat gaagtcatgc cgtccatgac tggttcagct ggaactttgt ttaccataa 120
 agaagtgttg ccatctatgg atgattctgt tgggaatttg tttgctaate gcagcacaca 180
 tgaagtgggt agttcatcat gtgcaggaca tgagatacat atcgatgaga ttgatgtaag 240
 tgttcacccct gcacaacaca cttcttctgg ggaggctaaa actggcaagc aagaaaacat 300

aaacaatgaa tgtgtgggaa gacttgcac agtcgaaggg gtcagtgagc aactaaatct 360
acattctgat tctattacaa atggcagtca gcatgatttg attcccaaac ttgatgtgct 420
atcatcaa at 432

<210> 22716
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-C10

<400> 22716

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cccagtttaa taatgttaat tcagggtgga atgatcaagc tgccagcctt ccagcagagc 120
aagcactgaa ttacgatgat caaagtggaa accttccgcc acctccttgg gaggctcagc 180
cagcggcaag caacgaaatg ccaaattgtg aattgggagg cgtgcaacct cttcctggga 240
cagctgggca gtccggcggc atgcagcagg cactgcaacc acaagttaac cacatgggag 300
ttccacaaag gcagccaatg tacagcaacc agccaggggt tgtggtggcg ccaacacaga 360
tgcaggcacg cttgggggaac cagcagttgg gttcgacac catga 405

<210> 22717
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-C11

<400> 22717

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaagaagg gggggccgaa cagatggatg taagcttcgg ttggcgggga 120
tggaagtca tttctcttg tatcgtgtca ttttcatttc atttccttgg gtttttgttt 180
tgtcgctct ggaatggaac attccttttc gtaacttaag tgaattgcat tacattaaat 240
tttccttt 248

<210> 22718
<211> 355
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-C2

<400> 22718

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ctctcatttt ggcgatactg cggacttcaa gttaagaga cgaagcttct agagtcatgg 180

ttgccgctcc tattctggca tttgtgacaa cccacattct gtacctcaac ttctatgagc 240

ttgacaaagg cctaaacatg aaggtttgta ctgtgataag cattgctcag tgtctcctgt 300

gggcactgtg ggctgtcatg agtgggcatc gttcgcggct caagatcata tctgt 355

<210> 22719

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-C3

<400> 22719

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gcaagacaca ccatacttgt ccagtcgata taccagtaga gatattctag ccttgggtat 120

cagagacttc aattcctctc aacttactta ccagcaagaa cttcaacatc ttgaaagttg 180

ggtgaaagaa tgcaggttgg accaactacc atttgtcgca caaaatttgg catacttctt 240

attgtccgct gctggctgca tgtactcccc tgaactgtct gaagctcgca ctttgtgtgc 300

aaaaaatggt gcgctcataa ctattgttga tgacttcttt gatgttggag gatcaaaaga 360

agaacttgaa aaccttgtca tgttggttga gctgtgggac gagcatcaca aaattgagtt 420

tta 423

<210> 22720

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-E1-C5

<400> 22720

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 ttttagcgct cttctgtgtc gtgcatggtg agaaggcaaa gtcaaaggac aacgatgcaa 120
 aagcgtccgg gcccggtggg tccttcgaca tcaccaagtt gggcgctcc ggcaatggca 180
 agacggatag cacgaaggct gtgcangagg cgtgggcac agcgtgcggc ggcaccggga 240
 agcagacgat cctcatcccc aaggcgact tcctcgtcgg accactcaac ttcacaggcc 300
 catgcaagg cgacgtgacc atccaggtga atggcaatct gctggcgacc acggacctaa 360
 gccagtacaa ggatcatggt aattggatcg agattctacg cgtggacaac cttgtcatca 420
 c 421

<210> 22721
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-C7
 <400> 22721

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 gccacgctgg cgctggccca cgggtgcgcaa ggaggaggac catcggcacg ggcggcgggc 180
 ctggacaagg tcacggccga gaccttcttc gacatcgaga tcgacggcaa gcctgcaggc 240
 cggatcgctc tgggactggt tggggacacc gttcctaaaa ctgcagagaa cttccgagca 300
 ctttgcacag gggagaaagg aattgccaag tccggcaagc ctctgtggta caaggggtcg 360
 acgttccaca ggattatccc ggggttcatg 390

<210> 22722
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-D1
 <400> 22722

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 ggcagaggtc gaggtcgagg ccgaggtcga ggtggaggcg gaggccggtg catcgtctgc 120

gaagaagaac cgtatccagg tgtccaccaa caagaagccg ctctatttct acgtcaatct 180
cgccaagagg tacatgcaga actacgacga ggttgagctc tccgctctgg ggatggccat 240
tggtaccgtg gtgaccgtcg ctgagatcct caagaacaat ggccctcgcca ctgaaaagaa 300
gatcctcaca tcaaccatcg gcaccaagga tgaggcgaag ggccggcttg tccgtaaagc 360
caagatcgag atcctgctgt gcaaatacaga gaacttcaac agcatcatgt cga 413

<210> 22723
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-D10

<400> 22723
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gcgaacaagc caaccgaccc cgtccccaag gcaatccgcc gccgacgtac caccaccacc 120
gcaggagcga gatggagatg aagaggatcc tcttcgccgt cctcgtcgtc atcgccgcct 180
cggccaccgc agtgctggcc tccaccgagg ccgcccgcgc gggcgcccca actgcctccg 240
agtcgtccgc cgaggctccc gctggcgctg gcgctggcgc tgccgctggc gccgcccgcct 300
cggggccctc cgccagcagc ggcgcgcccc cctcgccgc cgcgcccgcgc gcgctcctct 360
tctccctcct cgcctactac ctccactaag cgtgtgcgtg cg 402

<210> 22724
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-D11

<400> 22724
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cgtcctcccc tgctgtcgtc gtcgtcgtcg gcctcctcgt cgccgcgtcc tccctcgccg 120
tcgctgcctc cgatggcggg gggccgacgt acgggtacac ggcggggagc cccgacgggc 180
cggagaactg gggcaagctg agccccgcgt acaagctgtg cgggcagggg aagcagcagt 240
ccccgatcga catcgtcacc aagcaggccg tccccaacgc caacctcgac accctcaagc 300

gcacctacgc cgccaccgcc gccacgctca tcaacgacgg ccacgacatc acgatgacgt 360
tcg 363

<210> 22725
<211> 407
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3066-030-Q1-E1-D12

<400> 22725

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ccgggcatgg acaggtgcgg cgggcgccgc atggcgctgt acctggtgtc agtcgtcctg 120
cttgttgcgc tcttcgcgtc gtctgcaaaa tgtcgtcctg agccactcga cggcggcggc 180
aacgttaacg gcaatggcac ggcgccgcca gtcaacggcg gcggccccgg ccccggtccc 240
ggcgccgtac tgaagctgca gttctgcac cagaggaact gcgtgtacga aggccgtggc 300
aacgccccgt gcttctgctg cggggccttg aagcccaacc agtgctacga aacgagggac 360
gggtgcagcg gcaactgcgt gtancggtgt agccgcccgc gccggcg 407

<210> 22726
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-D2

<400> 22726

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acgagaagaa agccgtgacg gcggctctga aaaagaaggc tttgagcgcc tcacagaagt 120
ttaggcattc catgaagagg gggaggaaga gcagcaaggt gatgtccatc tcgattcttg 180
atgagcgtga acctgaggag gtgcaggctg tggatgcctt ccgccagctt cttgtacttg 240
aagagctgct accatcgag catgatgact accacatgat gctaagattt ctcaaggcaa 300
gaaagtttga tatcgagaag gcaaagcaaa tgtggtctga tatgctgaag tggagaaagg 360
agttcgggtgc agataccatt ct 382

<210> 22727
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3066-030-Q1-E1-D4

<400> 22727

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 ccgggaaaaa gttgacatcg atggcatcca acatcatcac tgatcttcag gaccgcatcc 120
 tctgagcttt aaactcacag taaacttctg cgttgtttca gtggctggct tctcccgtcg 180
 acccggtga caaactggcc tggcctggcc tgcagatctg tctaggagtt cgtaggcgtc 240
 tgagaacttc ctggcaatct ggcatatctg tctangagtt cggaagcatc tgaaaagtgg 300
 catatctgcc taggagttcg ggagcagcta aaatcttgaa gttagagaga gagagagaga 360
 aagagagaga gagggtgaaa gaagagaact tatgaccaat actg 404

<210> 22728
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-030-Q1-E1-D5

<400> 22728

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 ctgctcgctg ggctcgccgt gggctccgag gaggaggagg acggcggcgg caaaaagaag 120
 cccacgtca accacggcaa gtttaaggcg gagccgtgga cggacgggca cgcgacgtac 180
 tacggcgggc gcgacggggt aactgacacc acggacggcg gcgctgcgg ctacaagggc 240
 gagctgggga aagactacgg caccctgacg gcggccgtgg gcccgctcgt gtacaccaac 300
 ggcaccgggt gcggcgcgtg ctatgagctc aagggcccca agggcaccgt ggtggtgacg 360
 gccaccaacg agggcccgcc gccggtgagc gggcagaagg gcgagcactt cgacctcacc 420
 ataccggcgt tcctc 435

<210> 22729
 <211> 433

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3066-030-Q1-E1-B8
 <400> 22729

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 aggctaacaa tagcaccaag gacacaccga cagagtcaaa agagaccgtt ggcggtgacg 180
 acggcacggc ccagagccag acgagcttcg acgacatgaa tggcagtagc aacgactcgc 240
 agcccatgaa agaagacggg aaggtcgccg agaatagctc cgatgaaact gccagcggcg 300
 gcaaggtgga aagcacagac gacgacgcga caaccggcgc ggcgtcaaac aacgcaactt 360
 ccggaggcca naacgtcgcg gccgagacca tggcatttgc agccgcggat gatggcgcca 420
 acggcaacat cac 433

<210> 22730
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-A12
 <400> 22730

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 gctgcggcgg catgctgtgc ctcgacatgg gcaccgagga gcgcgccaac cgcctcatgc 120
 accacctcca gaacaccacc cagttcggcc tcatggccgt cagcctcggc tactacgaga 180
 cgctcatgtc ctgctccggc agcagcacca gcagcgagat gccgccgag gaccgcgcgc 240
 gcgcgggcat ctccccgggc ctgcgtccgca tgtccgtcgg ctacaacggc acgctggagc 300
 agcgctgggc gcagttcgag cgcgcgctcg cgctcatgca gacgccgacg cccacgcacc 360
 atctcaaggc cgccgcgcgc gaccgcgacg ggcccgaagc cgccaacaac accaccgcaa 420
 gcactgacgc g 431

<210> 22731
 <211> 241
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-E1-A2

<400> 22731

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ctctctcgcc gtccacgagt cacggcgagc ggcgtcgacg gcggggcggg gtcctggccg 120

ttcaccacca tgcctgaccc caccaccaa ccccttcgc cagcccccg ccgtcgccgc 180

aagctctgcg gnctctgcct cggaacgcg ctctcgcgc tctcgttgg cgcgctcgtt 240

c 241

<210> 22732

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-A3

<400> 22732

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tgcattcgct tggttttata gaatctccag aactaggttt agaagctccc ttggcccatc 120

atttgatgca cttttatgag atgatgggtg acacacttgc tgtacagtat agcggttctg 180

ctgctcataa caaggtattc tctgcaaaga gaggtcactt gaagcttttt attcagtcac 240

aagagttctt taggacactt cagcggcact acagcaacac ctgtatagat gctaacaaac 300

aggctgctat aaacttgttt ttgggatact tccagccaca gcaggaaaaa cctgcactgt 360

gggagttaga atcatctgct gggaagcata acaataatct ttttgatggg cacccaagta 420

ca 422

<210> 22733

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-E1-A4

<400> 22733

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gtcaccatca tccgaccgcc tgacacccta tatgatggag gctacttcaa tgcaataatg 120
accttcccc agaactatcc caacagcccg ccatcagtaa gatttacttc tgagatgtgg 180
catccgaatg tttatcctga tggacgtgtt tgcatttctg ttcttcatcc acctggtgaa 240
gatcccaatg gttatgagct tgcaagcgaa cgatggacac cagtgcacac ggttgaaagt 300
atagttctga gcatcatttc gatgctctct agtccaaatg acgagtctcc agcgaatata 360
gaagctgcca aggattggag agaaaagcgg gatga 395

<210> 22734

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-A5

<400> 22734

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ccaccaggcg ccgcccggcc cgcgcccgca cagcgtcacc atcaccgaat tccgcccgtt 120
cggggatggc aagacgctca agacgggtccc cttccagaac gccgtcttct acgttcgctc 180
cttcgcccac aagggcgggc cgcacctgta cgtgcccagg ggccgctggc ccaccgggag 240
cttcaacctc accagccacc tcatectcta cctggaggaa ggccgctca tcgtcggcgc 300
aaaggactca tcacaatggc tga 323

<210> 22735

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-A6

<400> 22735

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tgaagtattt agtgatggag gtggttgccc tatgctaaga tcattgatcc ttgacaattg 180
cgagaatttg agcattgtag aactgaacag cagttctttg tcttgctct ctcttgctgg 240

ttgccgctcg atgacattgt taaaactctc atgcccacat ctgcaacatg tcaatcttga 300
 tggctgtgat caccttcaaa gtgcagcatt ctgtccagt ggtctcgaat ccctaaatct 360
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<210> 22736

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-A7

<400> 22736

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 ttaacgtggt tcattcaccc atcttattgt gattgatcgc ttgcaataaa aaggccatct 180
 ttactaacta aaaaaagaaa 200

<210> 22737

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-A9

<400> 22737

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 ccggcgacgg ctgctattag tgtaaatgt agtgctgacg gggctctcctt gaacaatggc 120
 aggaatctgt tgcttgttta ctttcttcta atggcaagt 159

<210> 22738

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-B1

<400> 22738

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 agcgggcccg cgcgctgctg gtgacgcct tcctggcggc gcagctggtg gcgacgtgca 120

tcgccgtgta cgccaactgg gagttctgca agatgcaggg catcggtggtg ggctgggggtg 180
 gcgccatctg ggcgttcagc gtcgtcacct acttcccgtt ggacgtgctc aagttcgcca 240
 tccgtacgc gctctccggc aaggcctgga acaacatcaa caacaagacg gccttcacca 300
 accgcaccga ctacggcaag ggcgagcgag aggcgcagtg ggccacggca cagaggacgc 360
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<210> 22739

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-B10

<400> 22739

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 ccacttcacc gccatcgttg tcgccggcat ggggttcttc accgacgcct acgacctctt 180
 ctgcatctcc ctctgacta agtcctcgg ccgcatctac tacaccgttg aggggtccgc 240
 gacgcccggc accctccgc cgcacgtgtc cgcgtccgtc aacggcgttg ccttcgtggg 300
 cagcgtgtca gggcagctct tcttcggctg gctgggagac aagctcgggc gcaagaaggt 360
 ctatggcatg acgctcatgc tcatggtcct ctgctccgtc gcgtcggggc tc 412

<210> 22740

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-B11

<400> 22740

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 gtagatttgt ttocatgctt cggaatcctt caccaattct tcgtgcttgt gctgcctttg 180
 cccttcttca gttcacaatc ccaggaggtc ggcattgcagt gcatcacgca ggtctcttgc 240
 aggaagcagg ggcaggtcgg gtgttgccgc caacagcggc agcgacaaca gcttctattg 300

aagctaaaat ctttgccagg attgtactca cgaacttgga gcaccatcag ttagggatgt 360
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 ctg 423

<210> 22741
 <211> 76
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-B12

<400> 22741

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 ttcgtcctct taattg 76

<210> 22742
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3066-030-Q1-E1-B3

<400> 22742

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 tcggaagggt gaacttccca tccctgagga attgaccaag ggtacaattg aggagctatt 120
 caactttggt gccatgactc taaaggaatt tgtagaaaca gaagatggga acgatgaaca 180
 acgagcgctt ggtttcacat tttctttccc agttagacaa acatcagtat cttcgggggtc 240
 attgattagg tggaataaag ggtttttgat tgaagatgcg gttgggaaag atgtgggtca 300
 atgcttaaat gaagctcttg ctangaatgg actaaatgtg cgagttactg cactgggtgaa 360
 tgacaccgtg gggacattag ctctaggaca ttatcacgat gaggatacag tggctgctgt 420
 ga 422

<210> 22743
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-B4

<400> 22743

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actaagtgat gcggcaagca gattcttttt gttgtactca tcagagattc ttggtttcat 180
gggtggccata atgttttttg gaattatgcg acagacttca gcatgggaat gtgattcttc 240
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tctttgcttc atgccaatac ttgtattttg tgcctttttc attttcacgg cggagcaaaa 360
accaccattt gggaccttct tattgggttac tctgatctgc tacatagttg ctaatggttt 420
cacaattttg ttg 433

<210> 22744

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-B5

<400> 22744

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tggaagtctct cctcgctcgc cgatccatta ggtcttcctt ctccgcgcgc gccagcatca 180
ggggcgccgc ttccccaggg ccctcgcgcg tcgccaccct cgccagcgcc tgcgcgggcg 240
cccgtccccg cgcgtccgt gctggccaca cggactcaat ccttgagggtg ctggcacagg 300
acgatatgct gaacgcaaag gagctgggtcc aatgggagaa tggcttgtca ttcaatgaca 360
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<210> 22745

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-E1-B6

<400> 22745

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 cacgcccga gcccgggacc ggtgggcgcg cgccgggcag tangaggag aggaagggcg 120
 gcatggcggc gccgcggcg agggcccggy ccgactacga ctaccttate aagcttcttc 180
 tcattgggga tagcgggtgtt ggcaagagtt gcctcctgtt gcggttctct gatggttcct 240
 tcactacaag ctttattacc acaattggta ttgactttaa gatacggaca atagaattgg 300
 atggtaagcg tataaagcta cagatttggg atacagcggg ccaagaacgc ttccgtacta 360
 ttaccactgg gtactaccgt ggagct 386

<210> 22746
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-B7
 <400> 22746

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 taaaactctc gccgccgcca tccgagcgaa caagccaacc gaccccgctcc ccaaggcaat 120
 ccgccgccga cgtaccacca ccaccgcagg agcgagatgg agatgaagag gatcctcttc 180
 gccgtcctcg tcgtcatcgc cgcctcggcc accgcagtgc tggcctccac cgaggccgcc 240
 gccgcggggc ccccaactgc ctccgagtcg tccgccgagg ctcccgtgg cgctggcgct 300
 ggcgctgccg ctggcgccgc cgcctcgggg cctccgccca gcagcggcgc gccgcacctc 360
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 gcgtgcgt 428

<210> 22747
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-030-Q1-E1-A11
 <400> 22747

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caaccagacg cgggtcgtca agaccctgg tggcaagctc gtgtaccagt acaccaagaa 180
gagagccagc gggcccaagt gtcccgtagc cgggaagaag atccaggga ttccccatct 240
gaggccagct gagtacaaaa ggtccaggtt gtctaggaac cgcagaactg tgaaccgtcc 300
ctatggggga gtactatctg gaactgcagt tagagaaagg atcatccgtg ctttcctggt 360
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<210> 22748

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G6

<400> 22748

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gctgtctcta ccgagggcg ctcaaggaca cgtcaactg ggccgtccac cgccacctct 180
tctaccagga cgcgtcgat ctccgggaca agttcgaggc caaccgacac gtggataacc 240
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ccgatcccta cattgttcca tgggcaccag gcggcactaa attcacaaga aacccccctc 360
cacctcaagg gatcgagatc atctacaatt atggcaagga ggaccagtaa acaagagtcc 420
tgcaagcggc gggcagaact 440

<210> 22749

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G7

<400> 22749

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gtgcacctct gtcaagtgc acacaaagat ttatgaatat atgtctaggt gtcccagtg 180
gtcaaggcta tggattgact gaaacttggt ctggagcagc tttcactgaa tgggatgata 240

caaatgtggg tcgtgttggg ccaccacttg cttgctgcta tgtgaagctt gtctcatggg 300
aagaagggtg ttacaagatt tctgattctg cgatgccgag aggagaggtc gtggttggcg 360
gacacagtat aacataaggt tatttcaaca atgaagcaaa gacgaacgaa gtatacaagg 420
ttgatgagag gggcata 437

<210> 22750
<211> 425
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-029-Q1-K1-G9
<400> 22750

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ccggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acggatagca 180
cgaaggctgt gcaggaggcg tgggcatcag cgtgcggcgg caccgggaag cagacgatcc 240
tcatcccaa gggcgacttc ctcgtcggac cactcaactt cacaggccca tgcaaggcg 300
acgtgaccat ccaggtgaat ggcaatctgc tggcgaccac ggacctaacg cagtacaagg 360
atcatggtaa ttggatcgag attctacgcy tggacaacct tgtcatcacc ggcaaggga 420
agctc 425

<210> 22751
<211> 444
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-029-Q1-K1-H1
<400> 22751

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ataagctagg tggccagttc cacctgagct ccagcttctc tgaagggtga cgggcccgt 180
acatctgcct ttctttctca tcttatgaaa ggagatttgc cagaggaac tacatgacc 240
agagcctttg gggcccttca atgtctgtta gcggtggcat caatgttcca gtgatgccga 300

ctccgctttt tgccaatgct ccagccgaga aagggtggcaa aaacttcatg attgatttca 360
 tgatgggagg tggtttcagct gctgtttcga agactgcagc tgctccatt gaacgagtga 420
 agctgcttat tcagaatcag gatg 444

<210> 22752

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-H11

<400> 22752

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 gttggtagag cgagcgagaa gaaggcaatg gcggcgagaga gcttcctgtt cacctcggag 120
 tccgtgaacg aggggcaccc agacaagctg tgcgaccagg tgtcggacgc ggtgctggac 180
 gcctgcctgg cgcaggaccc cgacagcaag gtggcctgcg agacctgcac caagacgaac 240
 atggtgatgg tggtcggcga gatcaccacc aaggcgagcg tggactacga gaagatcgtg 300
 cgcgacacct gccgcgagat cgggttcacc tccgacgacg tggggctcga cgccgaccgc 360
 tgcaagggtg tggtgaacat cgagcagcag tcccccgaca tcgcgagagg cgtgcacggg 420
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<210> 22753

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-H12

<400> 22753

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 ttcagcgaga aggagctgat cagcgccatc gaccgcgagg ccgtgttcac gtacgcggag 120
 gacgcggcca gcgccagcct gccgctgatg cagaagctgc gcgccgtgct ggtggaccac 180
 gccctcagca gcggcgacgc ggagcgggag ccctccgtgt tctccaagat caccaggttc 240
 gaggaggagc tccgcgcggg gctgccccag gaggtggaag ccgccgcgt ggcggtcgcc 300
 gagggcaccg ccccggtggc gaaccggatc gcggacagcc ggtcgttccc gctgtaccgc 360

ttcgtgcgcg aggagctcgg ctgcgtgttc ctgaccggcg agaggctcaa gtccccccgc 420
gaggagtgca acaaggtggt cgtc 444

<210> 22754
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-H3

<400> 22754

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gtcccttata ttctacaga aaatcctcag ctgagtgata ctgcatatga ggttgccctt 120
gttgctctaa ctaccaatcc ttctttccat gaacttctct tgactactat aaaaaattgg 180
ccaccaacat tatactcagc ctcaccggtc atatctgccca ttgagccaca gctaaactcc 240
tcatcgatgg ctgattcatt gaaagagtca ttagctgaat tgtatgtgat caatgggtcaa 300
tacgaaaagg cactttctct ttatgctgaa ctctgaagc cagaagtatt cgagtttatt 360
gagaaataca acttgcatga tgccattcat gataagattg tcaatcttat gatagtggac 420
aataaaagaa 430

<210> 22755
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-H4

<400> 22755

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tacatatgtc gatccatatt gtatttgtgt gttgatagta tatatcgatg tggggtacgt 120
ttatatgtac ctgccattgt catttcatta ggtacgttgt tgcaaacttt taccacagta 180
tttatcttca c 191

<210> 22756
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-H6

<400> 22756

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tcgctaataa catcatggtc gtggggcgccg tccttgcggc gctcgtcgcc ggcgggtcgt 120
gcggggcccc gaaggtgccca cccggccccca acatcaccac caactacaac ggcaagtggc 180
tcaccgctag ggccacctgg tacggtcagc ccaacgggtgc cggcgctcct gacaacggcg 240
gtgcgtgcgg gatcaagaac gtgaacctgc caccctacag cggcatgacg gcgtgcggca 300
acgtccccat cttcaaggac ggcaagggct ggggctcatg ctacgagggtg agatgcaagg 360
aaaaacctga gtgctcgggc aatccagtca cgggtgtacat cactgacatg aactacgagc 420
ctatcgctcc ctaccacttc g 441

<210> 22757

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-H7

<400> 22757

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acgttttagta ttatactgaa cttttcagtc tccatggcct tatatgcatt ggttctcttc 180
taccacttgt ttgctaaaga gctggcacct cacaagcctc ttgcaaagtt cttgtgcac 240
aaagggattg tcttcttctc tttctggcag ggttttgccg tcgatgtttt aaccaagca 300
ggcgtgatca aatccaccca tttctggctg gacgtggagc acatccagga ggcatccag 360
aacgtcctgg tgatccttga gatgggtggtg ttctccgtca tccagcagta cgcataccac 420
g 421

<210> 22758

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-029-Q1-K1-H8

<400> 22758

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gactgttgat gcaaaataca acacaagaag cattaccagc aatgctacca tgaacactta 180
cgtacaaccc acttctggaa gttttgccaa cagacttgcg aaaaatgttg atgtaaatcc 240
gaacattgga tccatcagta atagagatgc caagagttct gatatgaagg cccacatggg 300
aagcaacacc atcagtgcgc ccaaagctc tattgtaaag ctagatacag gtaacatcac 360
tgatagaaat gccaaacctg tcgatataaa gcccaactct gacaacatct ncagcagaga 420
tgacaagagc agtaatgtgg atacta 446

<210> 22759

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-H9

<400> 22759

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atcaattcag aaaatggttg ctggattgga gggaaagatc gagttacttg agaacaaaca 120
ggacgtggct aatactggta tctggatatct ctgccaagta gcaggcgggt taaaagatgg 180
aataaacacc aggtttttcc aggaaccagc tgagaagctg aagctctcac attcagctca 240
acctgaaaac aagccagtga aggggcttga attttttttc ggaaagcacc atggaacaga 300
aagtagctga ctcaaacca attgcggtga cagtcgacgc tgagaagcct gagaaaaccg 360
ctgctgtaat gggcaccaca gtgcacaggt ctatcaggtt ctcatatcgg aatgcaggcc 420
ttgctttgtg 430

<210> 22760

<211> 364

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-030-Q1-E1-A1

<400> 22760

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gtcctgtcgt acaaccagct gacgggcccc atcccgcgcg acgacgcgcg cgacgagatc 120

aacaccgtgg acctctccca caacaagctg acgggcgacc cctcccacct gttcgccgcc 180

ggccggccca tcggcaaggt ggacctgtcg tggaactacc tcgacttcga cctgagccag 240

ctggtgttcc cgccggagat gacgtacctg gacctgtccc acaacctcat ccggggcacc 300

gtgccgctgt cgctggagcc gctgtccacg ctgcanaagc tggacctgag ctaaaccgcc 360

tgtg 364

<210> 22761

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-030-Q1-E1-A10

<400> 22761

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tgtccggacg tcccgtatcc acagcgacga acgcgtcgaa cccgtgggtg ctgacgttcg 120

agagggccat cgcctccgcg ggtggggagc tgtctaagcc tgagatcctg tcttcgacca 180

cggactcacg ctttgcgcgg cagctgggca tccctgccct cgggttttct ccgatgacca 240

ggacgccccat actgctacat gaccataacg agttttctgga agacagagtg ttcttgaggg 300

gcatccaagt gtacgaacat gtcacagag cactaagctc gttccaaggc tgattcgtaa 360

aaaaaaaaaaga aaagaagaag gaaaagtggc agtgctgttg cgtggagtgt aac 413

<210> 22762

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G5

<400> 22762

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tgcaagggca agtgcaccga gcagaagggc atcaccgcgc cgcagatgaa ggtgtgccaa 180
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 cctccttcct gaacgcagag caccgccgcc ggtcgtcgtc ttctgcctgc ttgctgaca 360
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<210> 22763
 <211> 413
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-029-Q1-K1-F12

<400> 22763
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 ctattcttga gaactttcgt caagaaacaa ctcatggaa taaaactgct aaagctacca 180
 atattgccga aagttctaag cttgaaagta ctggctctaa aataagcatt atagttgcaa 240
 cagatgcttg cttgcctcag gcagcgatgg cagaggcacc cttatggct cgagtgtgta 300
 taaactatga gcttcccaca aagaaggaag ctacttaag acgcatgtca acatgtttgg 360
 cggcagacgg aattgtgatt aacatggcgt ttgggtggtga ggtggttaca ctc 413

<210> 22764
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-029-Q1-K1-F2

<400> 22764
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 gtaccagcag tgcttggccg cgcaccgggt ggcacgcag gtcgtcagct ccggcatcct 180
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tgcgggccac gacagcagcc ctcccgaccc cgaggataaa gataataaag acaataaaga 300
gtttaaagtt gattggaaga ggggtgggcat cacaagctcc ttcggatttg cttttgttgg 360
tccagttggg cattactggt atgaatacct ggatcgcata atccggcgga ggtttcagcc 420
taacacgttc aaattcgtc 439

<210> 22765
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-029-Q1-K1-F3
<400> 22765

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aaaagaaaaa cagaaagcat ttgacattgg ccagaaatac gtacgacatg ccgtggcctt 180
tgaaggtatt tctcctgatg tgcctctcta taaagtcaat gaagggaatg aaccttgctt 240
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gaagaaactt tcagttcttt tcggaatgcy ttcagagggg ggcaataagg gctcaggtga 360
tgggtgggcca actcaaaggg catcagcctt ggccgctctt tcattctgcat tgaatccatc 420
gtcgcaagga aaacagtca 439

<210> 22766
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3066-029-Q1-K1-F4
<400> 22766

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tgagatgaa gaagatcgcc tgcgcccgtc tcgtcgccgc ctgggcccgc accgtggcgc 180
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gccgcggccg gtcgcccga ggccgaagaa gagacgaagc gggagagaga gtgacatggc 360
 tgcgcgcatt ccgatgcgtg ggcatgtttt tgattcgaca caccttttgt cctctttttc 420
 tttggtcctt ctttc 435

<210> 22767
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-029-Q1-K1-F5
 <400> 22767

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 ggcaccaaca acaagaccat ggctatatgc acgaacgcc aaggcagcac caagggttgc 240
 ctcaaggagc ttgcatgctt ctagaccctc agtcgactga cccatctctc tagttataat 300
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 ataatatagc 370

<210> 22768
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-029-Q1-K1-F6
 <400> 22768

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442

<210> 22769

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-029-Q1-K1-F7

<400> 22769

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gtggcgaacg tgctgta 437

<210> 22770

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-F8

<400> 22770

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gatgctgcta caagttcagc tatagctgcg cccttggtag cttcagatgt taaaccctct 180
cagccggtca gtaattcagc taccaagatg attatgtcaa gcaaattcac tgctaaggaa 240
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cttgacgcta tggcccctgt tgacacatac tacatttcac actctgcccc tgaagtacca 360
atgggcgtac ctgtatatga gtcaaagtct gtgcctggcg tttcacctct aaccaacaag 420
gttcattgta gtaacctgt 439

<210> 22771
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-029-Q1-K1-G1

 <400> 22771

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<210> 22772
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3066-029-Q1-K1-G10

 <400> 22772

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 cgtggcagac atacgtcgat gagcacctga tgtgcgagat cgagggccac cacctgacct 120
 ccgctgccat agtcggccac gacggcgccg tttggggcca gagcacccga tccccacagt 180
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 cgaccggcct cttcctcggc cccaccaagt acatggatcat ccaaggcgag cccggcgctg 300
 tcatccgcgg gaagaaagga tctggaggca taactgtgaa aaagacaggg caagcgatgg 360
 tggtcggcat ctacgacgag cccatgaccc ccgccagtgc aacatggtgg t 411

<210> 22773
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G11

<400> 22773

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tgccccatgc catgtggtgt ccagataaca agattggagt acataaatgc cctgtctagc 180
aacgtggagt atctggcgtc aagggatgca acaatcatgg gaagcaggaa cggccatgct 240
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cagaagtgct tgagaaacgc aactaccta aaagatcgcc tcatggaagc acgaatcgga 360
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<210> 22774

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3066-029-Q1-K1-G12

<400> 22774

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agcaaccac atatgattcg atcaattntc ctgctctaatt ttctcgacct cgtcgaattt 420
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<210> 22775

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G2

<400> 22775

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ggatggccat ttcaggtttt tctcagagat gatcaagttt cggcataacc atcctatatt 420
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<210> 22776

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G3

<400> 22776

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caactcgcat gagcctagga gtgcggcagc acttcgaatg tgaccaacct gatacgcctga 300
gacgactgtt ctgtacgtcc actaaactct acatgccctt gctgggacga cctgaccatt 360
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<210> 22777

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-G4

<400> 22777

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 tttaacaagt ttctgacttt cagttggagt tggagctatc atagtatgca attgtgcatg 420
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<210> 22778
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-029-Q1-K1-F11
 <400> 22778

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 cgacga 426

<210> 22779
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3066-029-Q1-K1-D7
 <400> 22779

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gacgggatgc caagcacg 438

<210> 22780
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-D8

<400> 22780

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<210> 22781
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-D9

<400> 22781

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cccctcccag aagtacttgt cccgcgacct cgccgcgcac acctcgctca agcccagaaa 180
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<210> 22782
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-E1

<400> 22782

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<210> 22783
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-E10

<400> 22783

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<210> 22784

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-E11

<400> 22784

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<210> 22785

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3066-029-Q1-K1-E12

<400> 22785

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gagaaa 426

<210> 22786
<211> 443
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3066-029-Q1-K1-E2
<400> 22786

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<210> 22787
<211> 443
<212> DNA
<213> Zea mays
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